<u>APPENDIX - A</u> DEALERS GUIDELINES/CRITERIA

WES'I LAKE FINANCIAL SERVICES

HOW TO STRUCTURE A DEAL USING THE WESTLAKE BUY MODEL

Step 1

Credit Application

- Include nearest relative and landlord information.
- Know income, debts, and time on job.

Step 2

Review Credit Bureau Printout

- Count good and derog items.
- Time on bureau
- See Credit Bureau Input Guidelines

Step 3 KELLEY BLUE BOOK

- Wholesale Book + approved adds
- Deduct High Miles
- Do NOT add for low miles

Step 4

Deal Structure

- Price, down, term
- Fine-tune deal
- Adjust price, down, term, reserve
- Check Amt Fin
- Complete Stips

SCREEN DEFINITIONS

#Years on Credit Bureau- The earliest record of credit. You may count Collection Accounts from the date assigned, but not inquiries. If no credit, input 0.0.

Good Credit Items- Count the number of "good" pieces of credit on the bureau, using Westlake guidelines. "Good" items that are later reported as "derog" items do not count. Multiple "good" entries on the same account do not count. Do not count child support (F/S) accounts. Do not count student loans. NOTE: There are some accounts that are both "good" and "derog."

\$ High Good Credit- The highest credit line ever established on an account classified as "good" credit. Criffd support (F/S) and student loans do not count.

perog Credit Items- Count the number of "derog" pieces of credit on the bureau, using Westlake guidelines. Accounts charged off with Bankruptcy are derog. Repos count as both 1 "derog" and 1 under "# of Repossessions." Do not count child support (F/S) accounts. Do not count student loans. Do not count Medical Collection Accounts. NOTE: There are some accounts that are both "good" and "derog."

\$ High Derog Credit- The highest amount ever established on any "applied for" account classified as "derog" credit. Do not count tax liens, student loans, or child support.

of Repossessions/Auto Losses- Count all repos, voluntary surrender, redeemed repos, paid repos, charged-off autos, BK LIQ autos, insurance deficiency autos, and any other autos (or installment loans from any lender that makes auto loans that **could be** an auto loan) that appear to have **ever** been repo'd or skipped or resulted in any form of a loss to a creditor. If spouse is on the contract, input total # of repos between them.

Prev Bankruptcy: Y/N- Input Y if BK or if any BK accounts appear on credit bureau, whether buyer or spouse. Must be discharged or dismissed.

Customer Owns Home: Y/N- Must supply documentation to input Y. Must be current on mortgage or be able to prove mortgage is current. Must live in the house they own. Mobile homes not eligible unless customer owns the land as well as the home.

Residence Stability #- Since age 18. Check credit and driver's license for any conflict. Must be able to contact landlord.

#Years on Present Job- Since age 18. Be sure to get verifiable info from the customer. Foster Care, Home Care, AFDC, SSI, welfare, and any other type of local, state, or federal assistance input 0.0. If retired or permanently disabled, input 2 years. Self-employed, letter POI, or family business not more than 2 years unless can prove otherwise. Temp jobs / agencies input 0.1 years unless we can verify with the employer, not the agency. If seasonal employee, use max of 2 years employment.

Gross Monthly Income- Verifiable gross income before taxes. Foster Care, Home Care, AFDC, SSI, welfare and any other type of income received due solely to the existence of another person count 50%. No food stamps, student loans or grants may be counted as income. Soft POI (s) input justifiable income to max \$1500/mo. If paying child support on bureau or paystub, deduct the amount from income (Windows Program: Input in "Family Support Debt"). Don't add it to Other Monthly Debts.

Rent/Mortgage- Input Rent or Mortgage Payment.

Other Monthly Debts- All monthly payments listed on application or still active/open on credit bureau, besides rent or mortgage. If no payment shown count 5% the balance. Be sure to count any garnishments or discretionary allotments on paystub if not listed on credit bureau, except for child support. Don't count child support as debt, deduct it from income (Windows Program: Input in "Family Support Debt").

Phone/Utility/Checking in Customer Name- Input "Y" if the customer's home phone, cable or utility bill is in their name, or if the customer has a checking account statement in their name. Bill/Statement must come to the customer's address or show service to the customer's address.

Spouse Co-X: Y/N- Input Y only when both spouses sign. Fill in the pop-up questions per policy.

Other Co-X: Y/N- Input Y if there is a non-spouse cosigner. Fill in the pop-up questions per policy.

VEHICL CLASSIFICATION SHEFT 11/2000

<u>IMPORTS</u>					
ACURA					
Integra Man Trans3					
Legend 86-905					
Vigor 3					
All Others 1					
DAEWOO					
4 Dr + Auto 3					
All Others 4					
<u>HONDA</u>					
Civic 92-newer 4dr+Auto."S"					
Civic 92-newer 4dr+Man 1					
Other Civic Automatic2					
Other Civic Man Trans 3					
CRX/Prelude 3					
Accord 89&Older 3					
Accrd 91-94 LX 4dr+Auto"S"					
All Others inc Accrd Wgn. 1					
HYUNDAL					
Scoupe (All) 5					
Other 97+newer 4					
All Others3					
ISUZU					
1 Pickups 1					
Trooper/Rodeo 4dr+Auto. 2					
Trooper/Rodeo Other3					
_All Others5					
LEXUS					
3					
MAZDA CARS					
<u></u>					
_Miata5					
Protégé 94-older 4					
-RX7 5					
929 91-older 4					
All Others 3					
MAZDA TRUCKS					
Pickups Auto+Xcab 2					
Navajo 4					
All Others 3					
MITSUBISHI					
Galant 94 & newer 3					
Montero 3					
Pickups1					
All Others 5					
NISSAN CARS					
Altima 93-95 w Auto 2					
Maxima 89&newer Auto 2					
Sentra 92-older"S"					
Sentra 93-newer 1					
240SX4					
300 ZX 5					
All Others					
NISSAN TRUCKS Pathfinder					
4 Dr + Auto 1					
Pickups"S"					
Quest					
All Others3					
VEHICLES 10 YRS OLD OR MORE:					
Add 100,000 miles to odometer if a 5					
digit odometer. 6 digit odometer					

vehicles must be booked with at least 100,000 miles.

IMPORTS (Cont)					
TOYOTA CARS					
Camry 92-93 Auto	"S				
Calica/Crassida/MR2	- 33				
Corolla 93-94 Auto	'S				
Supra	. 5				
All Others	1				
TOYOTA TRUCKS	٠				
Pickups	15				
4-Runner 90-91	Ö				
V6+4dr+Auto	, 0				
V0+401+A00	3				
Vans 89 & older					
All Others	1				
VOLKSWAGEN	_				
Jetta/Passat 4 Dr	3				
All Others	. 5				
DOMESTICS					
BUICK					
Quad 4, Tech 4 or	. 5				
Regal 92&newer w 3.8L	2				
Other 92&newer w 3.8L	3				
Century/Skylark/Regal					
All Others					
	4				
CHEVROLET	_				
Quad 4, Tech 4 or 2.8L					
Camaro					
Corvette					
Corsica/Caprice	4				
All Others	. 3				
CHEVROLET /					
GMC TRUCKS					
Astro/Safari 2WD	. 1				
Blazer 4dr+4.3L 95+	2				
S10 Blazer 2dr All	5				
C-Series w Auto	. 1				
C-Series Other	2				
K-5 Blazer/Tahoe/Yukon.					
Lumina Van					
S10 X-Cab 4.3L+Auto					
Suburban					
All Others	2				
All Others	. ა				
CHRYSLER	. 3				
Cirrus					
Concorde	4				
Town & Country	. 5				
All Others	. 5				
DODGE/PLYMOUTH CARS	_				
Turbos/Convertibles					
Intrepid	. 4				
Neon 4 dr + Auto					
Shadow/Sundance	. 3				
Spirit/Acclaim	. З				
Stratus/Breeze	. 3				
All Others					
DODGE / PLYMOUTH TRUCK	s				
Caravan/Voyager	_				
96-newer 2WD	. 3				
Caravan/Voygr Other	5				
94+ Trucks V-8	. o				
Dakota V6/V8	. 4				
Dakula VO/VO					

A-3

All Others...... 3

CA/AZ-01 10 00

DOMESTICS

DOMESTICS
FORD CARS
Turbo/Supercharger5
Escort 4
Mustang 94 & newer 2
Taurus Sedan 95 & older. 5
Taurus Wagon5
T-Bird 90-932
All Others3
FORD TRUCKS
Aerostar 4X4 5
Explorer 4 Dr + Auto 2
Explorer Other4
F Series Auto + V-81
F Series Other 2
Ranger X Cab
6 cyl + Auto1
Ranger 6 cyl + Auto 2
All Others3
GEO
Prism 4dr Sedan w Auto 1
Prism 4dr Sedan w Man 2
Tracker5
All Others3
<u>JEEP</u>
CJ & Wrangler 6 cyl 1
Other CJ/Wrangler 3
Cherokee 4dr+4.0L+Auto 3
Grand Cherokee 3
All Others5
LINCOLN
Towncar
All Others 5
MERCURY
Capri 5
Tracer4
Sable Wagon 5
Sable Sedan 95 & older5
All Others 3
OLDSMOBILE Quad 4, Tech 4 5
Silhouette5
All Other 3.8L or V8 4
All Other 4 or 6 cyl 3
PONTIAC
Quad 4, Tech 4 5
Firebird5
Transport 5
All Others 3
SATURN
All

ADDITIONAL POLICIES

- ANY VEHICLE NOT LISTED SHALL BE **CONSIDERED CLASS 5.**
- 2. DO NOT ADD FOR LOW MILES, OR "SOFT ADDS."

WESTLAKE WILL NOT ADVANCE FOR THE FOLLOWING KELLEY ADDS: PREMIUM SOUND, PREMIUM WHEELS, ABS, DUAL AIR BAGS, INTEGRATED PHONE, UPGRADED TOPS, BUMPER, WIDE/OVERSIZE TIRES, TOW GRILLE GUARD, WINCH, OR PAINT, PACKAGE, GUARD, GRILLE COMMERCIAL TRUCK ADDS & ANY ITEM NOT IN

3. ANY VARIANCE FOUND BETWEEN ACTUAL & REPRESENTED VALUE OF THE VEHICLE MAY RESULT IN DEALER REPURCHASE.

WESTLAKE FINANCIAL SERVICES

Credit Bureau Input Guidelines

TRW			no	TRW			no	TRW			no
Abbreviation	(+)	(-)	effect	Abbreviation	(+)	(-)	effect	Abbreviation	(+)	(-)	effect
BKADJPLAN	1000		80 ,00	CUR WAS 90	(•)	•	\$ 33.3	PAID-VOLUSUR		\$ 0	,,
BK LIQ REO		•		CUR WAS 90-3+	•	•		PD BY DLER		•	
CHARGE OFF				CUR WAS 120-2+	10.	•		REDEEMD REPO	*•	•	(* ⁽⁴
CLOS NP AA		•		CUR WAS 150-2+	•	•		REFINANC			•
CLOSED-120 2+ TIMES		•		DECEASED			•	REPOSESS		•	N. W. W.
CLOSED-30 2 TIMES	7.XV 6.	●	22 20 2 2 2 2	DEEDLIEU		•		SCNL		•	
CLOSED-30 3 TIMES		0		FORE PROC		•		SCNL LOC		•	
CLOSED-30 4 TIMES	1 20 3 0 5 0	0	200000000000000000000000000000000000000	FORECLOS		•		SETTLED	•	•	
CLOSED-30 5 TIMES		•		GOV CLAI M		•		TRANSFER			• •
CLOSED-30 6+ TIMES	£2554452	•	30000	INACTIVE		ana Nakabba	•	TRMDFALT		•	
CLOSED-30 DAY DEL	100	•		INQUIRY			•	VOLUSURR		•	
CLOSED-30 WAS 60		● .	220000000000000000000000000000000000000	INS CLAIM	0.0000000000000000000000000000000000000	42030746	•				
CLOSED-60 2 TIMES	XXX	•		NO STATUS			•	BK 11-DISCHG			•
CLOSED-60 3 TIMES	7223366	400000000000000000000000000000000000000		NOT PAY AA	0.0000000000000000000000000000000000000	•		BK 11-DISMIS			•
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CLOSED-90 2 TIMES	722 S4 AC	•		OPEN-30 3 TIMES	6000000000	**************	·	BK 12-DISCHG			•
SLOSED-90 3+ TIMES		•		OPEN-30 4 TIMES		•		BK 12-PETIT			•
CLOSED-90 WAS 120+	0.000	•		OPEN-30 5 TIMES	25.23.3	•		BK 13-DISCHG			•
DLOSED-DEL WAS 120-				OPEN-30 6+ TIMES		•	3	BK 13-DISMIS	9,0		•
CLOSED-DEL WAS 90		•		OPEN-30 DAY DEL				BK 13-PETIT	25.69.885	V-1.000	•
COSED-DELIQ 120		•	3,600	OPEN-30 WAS 60		•		BK 7-DISCHG			•
CLOSED-DELIQ 150	(,333/4660).		200000000000000000000000000000000000000	OPEN-90 WAS 120+	- (Aria, (2040))	•		BK 7-DISMIS	A0968.44	Suc y constru	•
LOSED-DELIQ 180				OPEN-DEL WAS 120	•	•		BK7-PETIT			•
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UR WAS 60	•	•		PAID-DELIQ 90	•	•		SUIT DISMISS		_^	
UR WAS 60-2	•	•		COFF NOW PAY		•.	,	SUIT FILED		• 3	_
UR WAS 60-3	•	•		PAID-FORECLOS	•	•		WAGE ASSIGN		•	
UR WAS 60-4+	•	•		PAID-REPOSES	•	•		W/A RELEASED		-	•
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WEST AKE FINANCIAL S_RVICES

Credit Bureau Input Guidelines

NOTE: ANY ACCOUNT WITH A PAST DUE AMOUNT IS A DEROG

Status Account History Account History Me			
	eaning (+)	(-)	Effect
1	Status		•
0 No History No History New	v Acct		•
	r Paid AA 🗶	1	
CONTRACTOR	aid Was 30 🕒		
	aid Was 60	•	
Total Continuous and the continu	aid Was 90 •	•	
	id Was 120 ●	•	
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	Delinquent	•	
C C C C C C C C C C C C C C C C C C C	aid Was 60 🔸	•	-
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Any Any Paying	under Plan	1	•
8 Any Any F	Repo	•	
9 None None Char	rge Off:	. •	
	ge Off	•	
9 PAID CHÂRGE OFF Paid C	harge Off 🔒 🔎	• •	
SOLD Sold to C	Other Lender		•
TRANSFERRED Account	Transferred		•
REFINANCED Account	Refinanced		•
PUBLIC RECORDS/OTHER INFORMATION ABE	BREVIATIONS*	!	-lu
JUDG Jud	dgment	•	
ST JUDG Satisfie	ed Judgment		.,⊕
BKRPT Bank	cruptcy	1	•
Wage Ea	arner Plan	-	•
FORCL Fore	closure	•	
Divor	ce Filed	1	•
DV FL Divor	ce Final	1	•
SP MT Separate	Maintenance		•
N/RES Non-Resp	ponsibility		•
	ishment	1	•
LIEN Tax	c Lien	•	
LIEN + RELEASED Tax Lie	n Released		•
NPFC Non-Prof	Fin Counsel		•
FN ST Financia	1 Statement	1	•
SECLN Secur	red Loan		•
COLL Collecti	ion Account	•	
COLL + PAID Paid Coll	lection Acct		•

HOW TO SCORE CREDIT (IN A NUTSHELL-ASK REP FOR SPECIFIC QUESTIONS)

- 1. Paid or Current credit never more than 30 days late is 1 good.
- 2. Paid or Current credit that was 60 or more days late is 1 good and 1 derog.
- 3. Any delinquent account or unpaid charged off account is 1 derog.
- 4. Collection accounts are derog; paid Collection accounts do not count as anything.
- 5. Tax Liens and Judgments are derog; if satisfied they do not count.
- 6. Student Loans and Child Support do not count, BUT we do count the debt from child support.
- 7. Transferred, Sold, or Refinanced lines of credit do not count.
- 8. Multiple lines of credit from the same creditor normally count as 1 line of credit.

CBI 6-99



AD SPRVICES PREFERRED PROGRAM GUIDELINES

Effective Date: 11-15-2000

INSTRUCTIONS:

- 1. Score credit as normal with the standard program guidelines with the following exceptions:
 - a. Paid Charge Off. Count as NO EFFECT.
 - b. Settled. Count as NO EFFECT.
 - c. Medical Collections. Count as Unpaid Collection Accounts (derog).
- 2. We will not ask you for # Derog Credit Items. Instead we will ask you about UNPAID Charge Offs and Collection Accounts (see guidelines below). Therefore, any account that we normally consider to be a +/- is a + only in this program. Exceptions to this are Paid Charge Off and Settled. These accounts will be considered as NO EFFECT. Also for this program, we WILL count Medical Collections as Unpaid Collection Accounts.
- 3. Input Yrs on Credit Bureau, #Good, and \$ Hi Good as normal. The questions # Unpaid Coll Accts, # Unpaid Chg Offs, and \$ Hi Unpaid Chg/Coll are new. Score those using the following guidelines:

#Unpaid Coll Accts / # Unpaid Charge Offs: Do not count unpaid accounts charged off during bankruptcy. If the BK was not completed, then you count them. What we are looking for are the bad accounts for which the customer is still liable.

Hi Unpaid Chg Off/Coll: This is the high \$ derog on an account that is a charge off or collection. What we are tooking for is the highest dollar amount of a Collection Account or Charge Off for which the customer is still liable. So you would not count BK accounts either for this question.

***OTHER POLICIES:**

- No Prior Repos/Auto Losses, INCLUDING with/before BK
- No Multiple Bankruptcies or Multiple BK Filings
- No open (active) delinquencies
- No TMU, Salvage, Exempt, or Other Branded Titles
- Max of 1 unreported Paid Auto and 1 unreported other loan
- NO Rent-To-Own accounts or Pre-Paid phone
- Vehicles Class 1-4 only
- Service Contracts must cover at least 1/2 the term of the contract
- COUNT MEDICAL COLLECTIONS AS UNPAID COLLECTION ACCOUNTS!
- PAID CHARGEOFFS AND SETTLED ACCOUNTS DO NOT COUNT AS CREDIT! (They still count for Time on Bureau)

STIPS:

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- Complete application; incomplete apps will be returned
- Minimum 4 different references, POI, copy of DL from state of residence (MUST have)
- Must have copy of phone/util bill if input "Y" in program for Ph/Util Bill
- NO 30 day insurance binders or polices or dealer-procured/sponsored insurance
- UIC 6 month policy OK

HINTS!!!

- When the program says "SORRY," it will give you a reason. Follow the directions.
- You can and should manipulate down, price, and term to make your deal.
- Must have at least 2 years Credit History (or a solid Cosignor), 4 years helps a lot.
- The program will accept very high debt ratios if the debt is from Rent or Mortgage.
- Equity is key! Don't expect to max out the amount financed every time. If the program won't give you the approval when you max it out, you are going to have to adjust the down/price to see how far it is willing to go.

WEST LAKE FINANCIAL SERVICES

PROGRAM INSTRUCTIONS

<u>Credit Application</u> - Must contain landlord name and phone number, 5 yrs job and residence history, bank account info, and relative reference (Mother, Father, Sister, Brother). Failure to provide the above will result in a TD. Applications found to be falsified will be a TD. It is the dealership's responsibility to verify the information on the credit application prior to submission for funding.

<u>Contract</u> – Contracts are to be written at the rate indicated by the Buy Program. **CA ONLY: Simple Interest contracts to be written at 23.9% APR.** Must sign in designated "assignment" area on front and back of contract, or it will be returned immediately.

Phone Bill - Bill must go to customer's residence. Westlake cannot purchase a deal if the customer's phone bill goes to another address. Deals will not be purchased without documentation showing the address the number goes to. ALL PAGES OF PHONE BILL ARE REQUIRED. In areas that the local phone company doesn't put the address on the phone bill SOLID PROOF of residence for the person named on the phone bill besides a phone bill is required. If the phone is prepaid or from a non-major company, then must be able to prove that the phone has been in service at least 3 months. If no land-line phone, then a complete cell phone bill in customer's name is ok if it goes to physical address and customer has a utility bill or checking account statement in name going to customer's physical address. Pre-paid cell is unacceptable. Phone bills past due more than the Westlake payment or that are actually disconnect notices are the same as not having a phone.

Open Auto Loans – 1 pre-existing open auto loan allowed if married and both sign. Cox may have an open auto. No open auto if single buyer.

<u>Pick Payments</u> - Up to 25% of the total down, up to \$500. Last pick due no later than 14 days prior to st payment.

<u>Military</u> - Rank E3+ ONLY. Term of Contract cannot exceed six (6) months beyond separation date listed on LES. Deal must arrive with <u>completed MAC</u> allotment and completed burnout or it will be returned immediately.

<u>Credit Counseling (CCC)</u> - Westlake will not purchase contracts with buyers who are in Credit Counseling (CCC) or have accounts presently being managed by a Credit Counseling service.

<u>Present or Prior Westlake Accounts</u> - Westlake will allow a second account on a couple who have made at least 6 payments on an account that is paid up-to-date. Any Westlake deficiency must be paid in full before considering a new Westlake deal.

Non-Reporting Good Accounts - Max of one auto loan and one other account. NO rental, medical, or dental.

<u>Derog on Bureau-Now Paid</u> - Chargeoffs and coll accts must have been paid at least 30 days prior to dealer running bureau. Delinquent accounts that are now current must have been paid up-to-date prior to dealer running bureau.

<u>Medical Collection Accounts</u> - Do not count Collection Accounts which are medical in nature. In order to be considered a Medical Collection, the account must reflect **on the bureau** a Doctor, Hospital, Radiologist, Emergency Room, X-Ray Facility/Tech, or other entity that is **clearly** Medical or Dental. The definition of "clearly" is left solely to the discretion of the Westlake buyer, so use common sense in applying this rule.

WESTLAKE FINANCIAL SERVICES

PROGRAM INSTRUCTIONS

<u>Utility Bills</u> - A utility is tap water, gas, electric, cable, satellite connection, garbage, or sewer. It is **NOT** jugs of water or newspaper.

<u>Dealer Employees</u> - Any deal on any employee of any dealer must be pre-approved by Westlake prior to submission.

TMU/Salvage Vehicles - TMU is acceptable with a Statement of Facts from the customer acknowledging TMU. For the book and program input, add 100,000 miles to the odometer. NO SALVAGE TITLES, LEMON-LAW TITLES, POLICE/TAXI/FIRE/FLOOD TITLES, OR ANY OTHER BRANDED TITLES. ODOMETER FORMS MUST ACCOMPANY DEAL. NO PURCHASES WILL BE MADE WITH MILEAGE REPRESENTED AS "EXEMPT".

Older Units - Vehicles 10 years old or more are assumed to have over 100,000 miles on them, and should be booked out that way. A 1988 car with a 5 digit odometer that says 48,000 miles must booked out as 148,000 miles. A 1988 car with a 6 digit odometer showing less than 100,000 miles must be booked out as 100,000 miles. No exceptions.

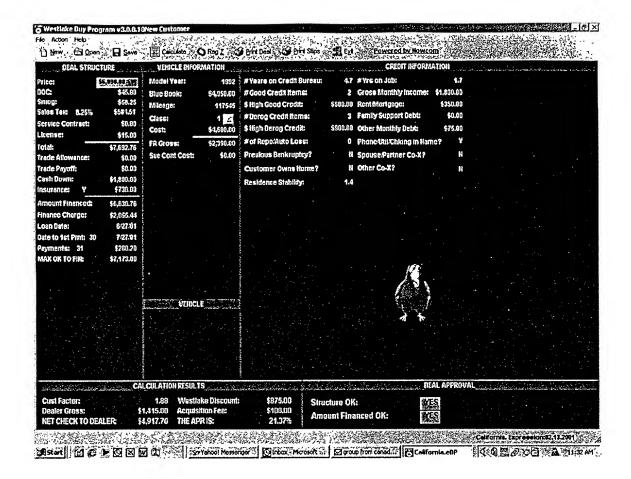
How we count Time Residence – Life begins at 18. If the credit bureau shows a different address with updates, then allow no more than 1 month after the earlier update. Use the latest different address for updates. If the driver's license has a different address, allow no more than 1 month after the date of the license. Use the lower of this number or what the application says. These policies hold even if the application shows a longer time at residence, or the credit bureau shows the current address before the different address. No documentation will ever change this policy.

Booksheet – KELLEY WHOLESALE: DO NOT ADD FOR LOW MILEAGE WHEN BOOKING THE VEHICLE. Do not add for the following options: Premium Sound, Premium Wheels, ABS, Dual Air Bags, Integrated Phone, Imitation/Padded/Vinyl tops, Custom Bumper, 2 tone paint, Wide/Oversize tires, tow package, Winch, Snow Plow, commercial truck adds and any item not in working order. Any variance discovered between actual & represented valuation of the vehicle by the dealership may result in dealer repurchase.

Rent - If the customer lives with relatives or pays no rent, use the greater of 10% of Gross Income or \$250 for rent.

<u>Open Delinquencies</u> - Westlake will not purchase a deal if the buyer has more than 2 open delinquencies on Credit Bureau. An open (active) delinquency is defined as any account counted as derog only that is not a chargeoff, coll acct, or BK liquidation. An account that is closed but is also currently delinquent and not a chargeoff is an open delinquency. If *Home Loan* is currently delinquent *DEAL WILL BE AN AUTOMATIC DECLINE*.

Our Philosophy - Westlake believes in a "Win-Win" approach for both the dealer and Westlake. We believe that our program allows the dealer more flexibility in structuring a deal than any other Finance Company program. We put a great deal of trust in our dealers when we give them access to our buy model, and we expect them to make deals that make sense. While we have sometimes accepted soft documentation on strong deals, we expect strong documentation on weak deals. Therefore, while we will make every effort to fund all deals that are approved by the Buy Program, it is ultimately up to you, our dealer, to ensure that the deals you send in have integrity and are fair for all parties concerned.



<u>APPENDIX - B</u> COMPUTER PROGRAM

File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM

```
'<%Template=California%> <%Version=Jay Test%>
' Template=California
' California Expression Template
 Modification Date: Nov 16, 2000
Reason: converted from Delphi to VB Script
' Modification Date : Nov 17, 2000
 Reason: Added code for COM, modified for Stand Alone BP Modification Date: Nov 22, 2000
 Reason: Added TotalofPayments calculation Modification Date: Jan 25, 2001
Reason: Added insuarnce cap beyond $10,000.00 Modification Date: Feb 13, 2001
 Reason: Repaired wizard re o/a, etc
Modification Date: Feb 26, 2001 - John Sun
Reason: Added error handling - when error occurs, system need to
continue and trap
 all the error messages.
' Modification Date : Mar 26, 2001 - Mike Duke
' Reason: Repaired Ins Lookup Table to account for all Carryback
possibilities.
Modification Date : Apr 03, 2001
Reason: Made minimum Total Income = $1.00
Modification Date: Apr 09, 2001
Reason: Move Big Mile Hit expressions in proper order for proper
recalc when opening saved deal
 Modification Date : Apr 30, 2001
' Reason: Fix error in Job Lookup Table
Modification Date: May 16, 2001
Reason: Fix error in CF Scaler Lookup
Modification Date: May 23, 2001
Reason: Allow Class 5 for reserve deals
  _____Added for Stand Alone
'On Error Resume Next
Set BPMod = CreateObject("BPfunctionsModule.BPFunctions")
'[CONSTANTS]
'System Error
DIM SystemError
SystemError = ""
Acqfee=100
'Note DealerGross, NetCheckToDealer
TooSmallPmt = 140
'Note DebtAdjustment Model, Final Reserve, Error Section
MinDiscount = 0.10
'Note MinDerog, MinBK, MinFact, FinalReserve
Curryear = 2000
'Note MaxCB Model, CarAge variable
* * *
'CarYear = vYear
     **********************
if (vYear < 5) then
  CarYear = vYear + 2000
  else if (vYear < 100) then</pre>
     CarYear = vYear + 1900
     else
       CarYear = vYear
```

Page: 1

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
  end if
end if
'Note
        CarYear is used in MaxCB, CarAge var, Error Section
'CHANGE
hint =""
hint1=""
hint2=""
hint3=""
hint4=""
hint5≈""
hint6=""
hint7=""
hint8=""
hint9=""
hint1.0=""
hint11=""
hint12=""
hint13=""
hint14=""
hint15=""
hint16=""
hint17=""
hint18=""
hint19=""
hint20=""
hint21=""
hint22=""
hint23=""
hint24=""
hint25=""
'Deal Structure Calculation Area
'Calculate TaxAmount And SubTotal
***
'LOOK AT THIS TAXRATE AS COMPARED TO DUKES FILE
'Input Parameters for this block are basically input variables 'TaxRate, Price, Smog, Doc, SmogCert, Tax, LicFee, Warr, Down,
TradeAllowance
' TradePayoff
Tax = (TaxRate/100) * (Price + Smog + Doc)
SubTot = cdbl(Price + Doc + Smog + SmogCert + Tax + LicFee + Warr)
TotalDown = Down + TradeAllowance - TradePayoff
TotalLessIns = SubTot - TotalDown
'Note these are all variables not models
'Tax used in SubTot
'SubTot used in TotalLessIns variable, CB variable
'TotalDown used in TotalLessIns variable, CB variable, BKBonus,
FTBBonus & SmallFTBBonus, and MINBK
'TotalLessIns used in Ins variable, EquityTest variable, HICBHIT,
OptimalCB Credit, FineTune, FinalCustomerFactor,
CFPHBillScaler in the
' Final CF calculation, DebtScaler, SpreadNum, MinFact,
***
```

```
'Calculate Insurance Amount If needed
1 **********************
* * *
'Input Parameters for this block are basically input variables
' InsFlag, TotalLessIns
if (InsFlag = 1) then
 if (TotalLessIns <= 10000) then
  Ins = LookupIns(TotalLessIns, 2 )
 else
  Ins = 0.1088*TotalLessIns+95
 end if
else
 Ins = 0.00
end if
'Note
'INS is used in many places
     CB variable, MaxCB, EquityTest variable, TotalDebt, FTBBonus
& SmallFTBBonus,
     HICBHIT, ExcessTerm Debt, Xterm, SpreadNum, CheckToDealer,
Error Section
* * *
* * *
' This is the amount Financed
* * *
'Input Parameters for this block are basically input variables
' SubTot, TotalDown, Ins
CB = (SubTot - TotalDown) + Ins
'Note this variable is used in many places
     Payment, IntCost Var, Add-On Var, SigDown, DebtAdjustment,
TotalDebt,
     FTBBonus, SmallFTBBonus, HICBHit, OptimalCBHit, ExcessTerm,
SpreadNum,
     RealOA var, CheckToDealer var, AmtOk var, Error Section
* * *
* * *
'Calculate APR --- Lookup Interest Rate
      *****************
'Input Parameters for this block are basically input variables
' Term
Interest = LookupApr( Term )
APR = Interest
'Note Interest is used in many places
APR, DebtAdjustment, TotalDebt
* * *
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
'Calculate Payment
***
'Input Parameters for this block are basically input variables
 CB, Term, DaysToPay
PaymentA = BPMod.bp_AddOnPMT( CB, Term, 0.12, DaysToPay )
Payment = BPMod.bp_Trunc( PaymentA, 2 )
'Note payment used in a lot of places
      IntCost var, Add-On var, TotalOfPayments, DebtAdjustment,
TotalDebt,
      FTBBonus, OptimalCBCredit, Excess Term, Payment Probability,
PPAdjust,
      SpreadNum, FinalReserve
* * *
* * *
'ADDON is the total dollar amount of Interest
* * *
'Input Parameters for this block are basically input variables
Payment, Term, CB, Price, Cost, Reserve, Warr, WarCost, AcqFee These are all output variables calculated
IntCost = ( Payment * Term ) - CB
AddOn = Payment * Term - CB
TotalofPayments= Payment*Term
FrGross = Price - Cost
DealerGross=PRICE-COST-RESERVE+WARR-WARCOST-AcqFee
'Note
      IntCost, AddOn, TotalOfPayments, FrGross are used basically
outputs
DealerGross is used in Error Section
Max Amount Financed Calculation Area = "MaxCB"
'Calculate Hit For very high miles = BigMileHit used to calculate
MAXCB
* * *
'Input Parameters for this block are basically input variables
' vClass, Miles
BigMilesStart = 185000
BigMilesRange_1 = 50000
BigMilesRange_2 = 50000
BigMilesRange_3 = 50000
HitBigMiles_1 = 0.15
HitBigMiles_2 = 0.15
HitBigMiles_3 = 0.15
LotsOfMiles_1 = BigMilesStart - ( vClass * 10000 )
LotsOfMiles_2 = LotsOfMiles_1 + BigMilesRange_1
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
LotsofMiles_3 = LotsOfMiles_2 + BigMilesRange_2
HitRate_1 = ( HitBigMiles_1 + ( vClass / 100 ) ) / BigMilesRange_1
HitRate_2 = ( HitBigMiles_2 + ( vClass / 100 ) ) / BigMilesRange_2
HitRate_3 = ( HitBigMiles_3 + ( vClass / 100 ) ) / BigMilesRange_3
BigMileDelta_2 = BPMod.bp_MIN( Miles - LotsOfMiles_2, BigMilesRange_2
) * HitRate_2
BigMileDelta_3 = BPMod.bp_MIN( Miles - LotsOfMiles_3, BigMilesRange_3
  * HitRate_3
BigMileHit_1 = BPMod.bp_MIN( Miles - LotsOfMiles_1, BigMilesRange_1 )
* HitRate_1
BigMileHit_2 = BPMod.bp_IFG( Miles, LotsOfMiles_2, BigMileHit_1 +
BigMileDelta_2, BigMileHit_1 )
BigMileHit_3 = BPMod.bp_IFG( Miles, LotsOfMiles_3, BigMileHit_2 +
BigMileDelta_3, BigMileHit_2)
BigMileHit = BPMod.bp_IFG( Miles, LotsOfMiles_1, BigMileHit_3, 0)
'Note
         BigMileHit is the output used in calculating MaxCB
**************************************
***
'Calculate Regular Hi Mile Hit = "HiMileHit"
***
 'Input Parameters for this block are basically input variables
 vClass, Miles, Book
MCBHiMiles = 140000
MCBHiMilesRange = 10000
OverMiles = MCBHiMiles - MCBHiMilesRange
MaxHiMileHit = LookupTermTable( vClass, 10 )
MCBHitRate = MaxHiMileHit / MCBHiMilesRange
HiMileHitExp1 = BPMod.bp_MIN( ( Miles - OverMiles ), MCBHiMilesRange
) * MCBHitRate * Book
HiMileHit = BPMod.bp_IFG( Miles, MCBHiMiles - MCBHiMilesRange, HiMileHitExp1, 0 )
 'Note
        HiMileHit is the output variable used in calculating MaxCB
 1*****
 * * *
 'Calculate WarrAllowance
 'Note I thought that this variable could stand by itself
 'Input Parameters for this block are basically input variables
 ' Warr
 MaxWarrCB = 250
 WarrAllowance = BPMod.bp_MIN( MaxWarrCB, Warr )
 'Note WarrAllowance is used in MaxCB, SigDown, TotalDebt, Excess
         SpreadNum, MinFact, FinalReserve, Error Section
 1 * * * * * * * * * * * * * * * * *
 'Calculate MaxCB
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
* * *
'Input Parameters for this block are basically input variables 'vClass, Book, HiMileHit, WarrAllowance, Ins, BigMileHit, CurrYear,
CarYear
BMHiLimit = 6000
BMLowLimit = 2000
MCBMaxIns = 1000
BMRange = BMHiLimit - BMLowLimit
CarClassAdv = LookupTermTable( vClass, 8 ) * Book
MaxBookAdv = LookupTermTable( vClass, 9 ) + Book
PossibleAdv = CarClassAdv - HiMileHit + WarrAllowance + BPMod.bp_MIN
( Ins, MCBMaxIns )
OKAdv = BPMod.bp_MIN( PossibleAdv, ( MaxBookAdv + Ins + WarrAllowance
BigMileSmackScaler = BPMod.bp_MAX( BPMod.bp_MIN( ( OKAdv - Ins -
BMLowLimit ) / BMRange, 1 ),0 )
BigMileSmack = ( OKAdv - Ins ) * BigMileHit * BigMileSmackScaler
MaxAltCB = 1500 + Ins - 100 * ( CurrYear - BPMod.bp_MIN( CurrYear,
CarYear ) - 10 )
MaxCB = BPMod.bp_MAX( ( OKAdv - BigMileSmack ), MaxAltCB )
'Note
        MaxCB is used in EquityTest var, SigDown, FineTune, Xterm,
RealOA,
        Error Section
******************
* * *
                                  End MaxCB
***********************
* * *
'Assorted One Line Variables for future use
***
'Input Parameters for this block are basically input variables
  Down, TradeAllowance, TradePayoff, TradeScaler, CurrYear, Caryear,
' TotalLessIns, MaxCB, Ins
' These again are some variable which are later used.
TradeScaler=0.70
RealDown = Down + ( TradeAllowance - TradePayoff ) * TradeScaler CarAge = CurrYear - CarYear
EquityTest = TotalLessIns / ( MaxCB - Ins )
RealDown used in SigDown, OptimalCBCredit, Error Section
 * * *
 'Calculate Good/Derog including Spouse
                                       *********
 'Input Parameters for this block are basically input variables 'Spouse, Good, SpGood, Derog, SpDerog, HiGood, SpHiGood, HiDerog,
SpHiDerog
TotalGood = BPMod.bp_IFB( Spouse, ( Good + SpGood ) / 2, Good )
TotalDerog = BPMod.bp_IFB( Spouse, ( Derog + SpDerog ) / 2, Derog )
RealHiGood = BPMod.bp_IFB( Spouse, BPMod.bp_MAX( HiGood, SpHiGood ),
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
RealHiDerog = BPMod.bp_IFB( Spouse, BPMod.bp_MAX( HiDerog, SpHiDerog
), HiDerog )
'Note
         TotalGood used in RealINC, GoodScaler/BadScaler, BKBonus,
HICBHIT,
                   FineTune, FinalCFCalculation, DEBTScaler, MinBK
          TotalDerog used in RealINC, GoodScaler/BadScaler, HiCBHit,
FineTune,
          FinalCFCalculation, DebtScaler
RealHiGood used in GoodScaler/BadScaler, BKBonus, HiCBHit,
                   FinalCFCalculation, MinBK
          RealHiDerog used in GoodScaler/BadScaler,
FTBBonus/SmallFTBBonus,
HiCBHit, FineTune, FinalCF, DebtScaler, MinDerog.
'Calculate TotalINC
'Note I separated because I thought it could be calculate by itself
and
 'does have to be included in RealInc as it used in many places
'Input Parameters for this block are basically input variables 'Spouse, Inc, SpInc, Support
TotalInc=BPMod.bp_MAX(BPMod.bp_IFB(Spouse, Inc+SpInc-Support,
Inc-Support), 1)
 'Note
          TotalInc in RealInc, RealJob
                                             ********
1*******
 1 ***********************
* * *
 'Calculate Income including Spouse = "RealINC"
'Input Parameters for this block are basically input variables 'TotalGood, TotalDerog, YrsTRW, Repos, Inc, Support, SpInc,
TotalInc, Spouse
 'TotalInc = BPMod.bp_IFB( Spouse, (Inc + SpInc - Support), (Inc -
 Support))
 'TotalInc=BPMod.bp_MAX(BPMod.bp_IFB(Spouse, Inc+SpInc-Support,
RealIncCond1 = BPMod.bp_IFG( TotalGood, 1.5, 1, 0 )
RealIncCond2 = BPMod.bp_IFL( TotalDerog, TotalGood, 1,0 )
RealIncCond3 = BPMod.bp_IFGE( YrsTRW, 2, 1,0 )
RealIncCond4 = BPMod.bp_IFLE( TotalDerog, 2, 1, 0 )
RealIncCond5 = BPMod.bp_IFE( Repos, 0, 1,0 )
RealIncCond6 = RealIncCond1 * RealIncCond2 * RealIncCond3 *
 Inc-Support), 1)
 RealIncCond4 * RealIncCond5
MinInc = BPMod.bp_MAX( Inc-Support, SpInc-Support )
IncHit = BPMod.bp_MAX( 1 - ( TotalInc / 10000 ), 0.75 )
RealIncExp2 = BPMod.bp_MAX( BPMod.bp_MAX( TotalInc * IncHit, TotalInc
 - 500 ), MinInc )
 RealIncExp1 = BPMod.bp_IFB( RealIncCond, TotalInc, RealIncExp2 )
RealIncExp = BPMod.bp_IFB( Spouse, RealIncExp1, TotalInc )
 RealInc = BPMod.bp_Max( RealIncExp, 1 )
  Two lines above are there in the new dukes file
 'RealInc = BPMod.bp_IFB( Spouse, RealIncExp1, TotalInc )
 'Note
           RealInc is used in CountRent/CrapRatio,
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
FTBBonus/SmallFTBBonus,
TotalDebt, FinalCFCalculation, DebtScaler, DebtProblem, MinBK, Error Section
 ***
'CoxScaler is to be used if Cox=Yes
'CoxScaler is to be used if Cox=Yes
 'Input Parameters for this block are basically input variables 'CoxGood, Good, CoxDerog, CoxRepo, CoxInc, CoxHome, CoxParent,
YrsTRW
 ' Derog
GoodCreditExp = BPMod.bp_IFL( CoxGood, Good, - 2,0 )
GoodCreditPoints = BPMod.bp_IFB( BPMod.bp_IFG( CoxGood, Good, 1,0 ) *
BPMod.bp_IFGE( CoxGood, 4,1,0 ), 2, GoodCreditExp )
DerogExp = BPMod.bp_IFB( BPMod.bp_IFG( CoxDerog, 3,1,0 ) +
BPMod.bp_IFG( CoxDerog, CoxGood, 1,0 ), - 1, 0 )
DerogCreditPoints = BPMod.bp_IFB( BPMod.bp_IFG( CoxDerog, CoxGood *
DerogCreditPoints = BPMod.bp_IFB( BPMod.bp_IFLE( CoxDerog,CoxGood * 0.5, 1,0 ) * BPMod.bp_IFLE( CoxDerog,3,1,0 ) * BPMod.bp_IFGE(
CoxGood,1,1,0), 2, DerogExp)
RepoPoints = BPMod.bp_IFE( CoxRepo,0,1, - 10 * CoxRepo)
IncAccounts = BPMod.bp_MAX( (CoxGood + CoxDerog), 1)
 IncDivAcct = BPMod.bp_IFE( ( CoxGood + CoxDerog ), 0, 0, (CoxInc /
 IncomePointsElseExp = BPMod.bp_IFB( BPMod.bp_IFGE( IncDivAcct, 200, 1, 0
) + BPMod.bp_IFGE( CoxInc, 4000, 1, 0 ), 3, ( ( IncDivAcct - 100 ) / 100
) * 3 )
 IncomePoints = BPMod.bp_IFLE( IncDivAcct, 100, 0, IncomePointsElseExp )
 CoxOwnHomePoints = BPMod.bp_IFB( CoxHome, 3, 0 )
CoxParentOfBuyerPoint = BPMod.bp_IFB( CoxParent, 5, - 1 )
BuyerLowOnBureauPointElseExp2 = BPMod.bp_IFLE( YrsTRW, 3, 0, - 1 )
BuyerLowOnBureauPointElseExp2 = BPMod.bp_IFLE( YrsTRW, 2, 1,
 BuyerLowOnBureauPointElseExp2 )
 BuyerLowOnBureauPoint = BPMod.bp_IFLE(
 YrsTRW, 1, 3, BuyerLowOnBureauPointElseExp )
 CoxPoints = GoodCreditPoints + DerogCreditPoints + RepoPoints +
  IncomePoints + CoxOwnHomePoints + CoxParentOfBuyerPoint +
 BuyerLowOnBureauPoint
 GoodCoxExp1 = BPMod.bp_IFOR2( BPMod.bp_IFAND2( BPMod.bp_IFGE(
 CoxGood,5,1,0), BPMod.bp_IFGE(CoxGood,5 * CoxDerog, 1,0),1,0),BPMod.bp_IFAND2(BPMod.bp_IFB(CoxHome,1,0), BPMod.bp_IFLE(CoxDerog, 1, 1, 0),1,0), 1,0)
'GoodCoxInc = BPMod.bp_IFB(GoodCoxCond, BPMod.bp_MIN(CoxInc -
  1500 ) / 1000, 1 ),0 )
  'Mike Duke's new program has it correct.

GoodCoxCond = GoodCoxExp1 * GoodCoxExp2 * GoodCoxExp3 * GoodCoxExp4

GoodCoxInc = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_MIN( ( CoxInc - 1500
 GoodCoxInc = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_MIN( ( CoxInc - 1500) / 1000, 1 ), 0 )

DerogNotZero = BPMod.bp_MAX( CoxDerog, 1 )

GoodCoxCredit = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_IFB( CoxDerog, ( CoxGood / DerogNotZero ) * 0.2, CoxGood * 0.2 ), 0 )

GoodCoxScaler = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_MAX( GoodCoxCredit * GoodCoxInc, 1 ) * GoodCoxInc, 0 )

BadBuyer = BPMod.bp_IFB( BPMod.bp_IFG( YrsTRW + Derog, 10, 1, 0 ) *

BPMod.bp_IFG( CoxPoints, 0, 1, 0 ), 1, 0 )

BadBuyerScaler = BPMod.bp_IFB( BadBuyer, BPMod.bp_MAX( 0, 1 - 0.1 * ( YrsTrw + Derog - 10 ) ), 1 )
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
CoxScaler = BadBuyerScaler * ( CoxPoints + GoodCoxScaler * CoxPoints
 'Note
'Calculate variable ResidTot for cust fact calc later
     *****
 'Input Parameters
 ' Resid
Resid8YearBase = BPMod.bp_IFGE( Resid, 8.1, BPMod.bp_MIN( Resid - 8,
 4 ) * 0.00, 0 )
Resid5YearBase = BPMod.bp_IFGE( Resid, 5.1, BPMod.bp_MIN( Resid - 5,
             1.44, 0 )
Resid1YearBase = BPMod.bp_IFGE( Resid, 1.1, BPMod.bp_MIN( Resid - 1,
 4 ) * 1.27, 0 )
 ResidOYearBase = BPMod.bp_IFGE( Resid, 0.0, BPMod.bp_MIN( Resid, 1 )
 * 0.776, 0 )
ResidTot = Resid8YearBase + Resid5YearBase + Resid1YearBase +
 ResidOYearBase - 0.176
 'Note
                  ResidTot is used in FinalCFCalculation
 * * *
 'Calculate scaler for good/derog credit items="goodscaler",
  "badscaler"
 'Note GoodScaler/BadScaler could be done separately -- IMP
 * * *
 'Input Parameters
  ' TotalDerog, TotalGood, RealHiGood, RealHiDerog, YrsTRW, vClass,
  ' BK, RealHiDerog
 GSJustForPlaying = 1.50
GSHiGood = 0.25
GS2ManyAcct = - 0.25
 GSGood2xDerog = 0.25
 GSDerog2xGood = -0.25
 GSDerog5xGood = -0.25
 GSNoDerog = 0.20
GSFTB = 0.65
 GSGoodMoreThanDerog = 0.10
  GoodScalerBase = GSJustForPlaying
  GoodScaler9 = BPMod.bp_IFE( TotalDerog, 0, GoodScalerBase + GSNoDerog,
 GoodScalerBase )
  GoodScaler8 = BPMod.bp_IFG( TotalGood, TotalDerog, GoodScaler9 +
 GSGoodMoreThanDerog, GoodScaler9 )
GoodScaler7 = BPMod.bp_IFB( BPMod.bp_IFG( RealHiGood, RealHiDerog * 10,1,0 ) * BPMod.bp_IFG( RealHiDerog, 100,1,0 ) * BPMod.bp_IFL( RealHiDerog, 3000,1,0 ), GoodScaler8 + GSHiGood, GoodScaler8 )
RealHiDerog, 3000,1,0 ), GoodScaler8 + GSHiGood, GoodScaler8 )
 GoodScaler6 = BPMod.bp_IFB( BPMod.bp_IFG( TotalGood, TotalDerog * 2,1,0 ) * BPMod.bp_IFGE( TotalDerog,1,1,0 ),GoodScaler7 + GSGood2xDerog, GoodScaler7 )
GoodScaler5 = BPMod.bp_IFGE( TotalDerog,TotalGood * 2,GoodScaler6 + GSD=20005caler6 | CoodScaler6 | CoodScaler7 | CoodScaler6 | CoodScaler7 | C
  GSDerog2xGood, GoodScaler6 )
  GoodScaler4 = BPMod.bp_IFGE( TotalDerog, TotalGood * 5, GoodScaler5 +
  GSDerog5xGood,GoodScaler5 )
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
GoodScaler3 = BPMod.bp_IFB( BPMod.bp_IFE( YrsTRW,0,1,0 ) *
BPMod.bp_IFNE( vClass,5,1,0 ),GoodScaler4 + GSFTB,GoodScaler4 )
GoodScaler2 = BPMod.bp_IFB( BPMod.bp_IFLE( YrsTrw,2,1,0 ) *
BPMod.bp_IFGE( TotalGood + TotalDerog, 6, 1, 0 ), GoodScaler3 +
GS2ManyAcct,GoodScaler3 )
GoodScaler1 = BPMod.bp_IFL( RealHiDerog,1000,GoodScaler2 + ( 1000 -
RealHiDerog ) * 0.0005, GoodScaler2 )
GoodScaler0 = BPMod.bp_IFL( YrsTRW,1,GoodScaler1 + ( 1 - YrsTRW ) *
TotalGood * - 0.5, GoodScaler1 )
GoodScalerX = BPMod.bp_MIN ( GoodScaler0, 1.5 )
GoodScaler = BPMod.bp_MAX ( GoodScalerX, 0.25 )
BSSmallHD = - 0.20
BSBK = - 0.20
BadScalerBase = 1.05
BSHiDerog = 0.20
BadScaler5 = BPMod.bp_IFB( BPMod.bp_IFGE( RealHiDerog, 5000, 1, 0 ) *
BPMod.bp_IFE( BK,0,1,0 ), BadScalerBase + BSHiDerog, BadScalerBase )
BadScaler4 = BPMod.bp_IFB( BK, BadScaler5 + BSBK, BadScaler5 )
BadScaler3 = BPMod.bp_IFLE( RealHiDerog, 500, BadScaler4 + BSSmallHD,
BadScaler4 )
 'CHANGE
BadScaler2 = BPMod.bp_IFB( BPMod.bp_IFB( BK,1,0 ) * BPMod.bp_IFL( YrsTRW,5,1,0 ), BadScaler3 + (5 - YrsTRW)*0.3, BadScaler3 )
BadScaler1 = BPMod.bp_MAX( BadScaler2, 1.00 )
BadScaler = BPMod.bp_MIN( BadScaler1, 1.5 )
 'Note
            GoodScaler is used in FinalCFCalculation
 BadScaler is used in FinalCFCalculation
                                                          *********
 * * *
 'Calculate BKBonus to be added to cust fact as part of finetune
 ***
 'Input Parameters
 ' vClass, TotalDown, Price, YrsTRW, TotalGood, RealHiGood, Spouse,
 ' Inc, SPInc, BK, minBK
BKStrong = 0.5
BKGood = 0.2
 BKInc = 0.2
 BKSpouse = 0.05
 BKHiGood = 0.2
BKBonusCond = BPMod.bp_IFNE( vClass, 5, 1, 0 ) * BPMod.bp_IFGE(
TotalDown, Price * 0.20, 1, 0 ) * BPMod.bp_IFGE( TotalDown, 1500, 1, 0 ) *
BPMod.bp_IFGE( YrsTRW, 5, 1, 0 ) * BPMod.bp_IFG( TotalGood, 5, 1, 0 )
 'this is according the dukes new expression
 BKBonusExp6 = BPMod.bp_IFGE( RealHiGood, 10000, BKHiGood, 0 )
BKBonusExp5 = BPMod.bp_IFB( Spouse, BKBonusExp6 + BKSpouse,
 BKBonusExp6 )
 BKBonusExp4 = BPMod.bp_IFGE( BPMod.bp_IFB( Spouse, Inc + Spinc, Inc
 ),3000,BKBonusExp5 + BKInc, BKBonusExp5 )

BKBonusExp3 = BPMod.bp_IFGE( TotalGood,8,BKBonusExp4 + BKGood,

BKBonusExp4 )

BKBonusExp2 = BPMod.bp_IFE( MinBK,MinDiscStrongBK, BKBonusExp3 +
 BKStrong, BKBonusExp3 )
 BKBonusExp1 = BPMod.bp_IFB( BKBonusCond, BKBonusExp2,
 BKBonus = BPMod.bp_MIN( BPMod.bp_IFB( BK, BKBonusExp1, 0 ), 1 )

'BKBonusCond = BPMod.bp_IFNE( vClass,5,1,0 ) * BPMod.bp_IFGE(
TotalDown,Price * 0.20,1,0 ) * BPMod.bp_IFGE( TotalDown,1500,1,0 ) *

BPMod.bp_IFGE( YrsTRW,5,1,0 ) * BPMod.bp_IFG( TotalGood,5,1,0 )
```

```
'Note
      BKBonus is used in FinalCFCalculation
'Debt Model 1, Calculate countRent and crapRatio
***
'Input Parameters
' Spouse, Debt, RealInc, Rent,
CRStart = 0.15
CRCountAll = 0.20
OKCrap = BPMod.bp_IFB( Spouse, 0.18, 0.13 )
Crap = DEBT / RealInc
'CHÂNGE
RentMult = ( Crap - CRStart ) / ( CRCountAll - CRStart )
CountRentExp2 = RentMult * Rent
CountRentExp1 = BPMod.bp_IFGE(Crap,CRCountAll,Rent,CountRentExp2)
CountRent = BPMod.bp_IFG( Crap, CRStart, CountRentExp1,0 )
CrapRatio = BPMod.bp_MAX( Crap - OKCrap, 0 )
'Note
       CountRent is used in TotalDebt
       CrapRatio is used in PPAdjust
* * *
'Calculate SigDown
       'Input Parameters
' MaxCB, CB, WarrAllowance, RealDown, Price
SDDollarDown = 1500
SDPercentDown = 0.30
SDScaler = 0.80
SDEquityMult = 0.50
Equity = BPMod.bp_MAX(( MaxCB - CB - WarrAllowance ), 0 )
DollarDownMult = BPMod.bp_MIN( RealDown, SDDollarDown ) /
SDDollarDown
PercentDownMult = BPMod.bp_MIN( RealDown / Price, SDPercentDown ) /
SDPercentDown
SigMult = BPMod.bp_MAX( BPMod.bp_MAX( DollarDownMult, PercentDownMult
), SDEquityMult )
SigDown = BPMod.bp_MIN( SigMult * Equity * SDScaler, 0.5 * RealDown )
'Note SigDown is used in FTBBonus/SmallFTBBonus, HICBHIT, FineTune,
Excess Term Determination, DownPayment Probability, MINFact
*************************
* * *
'Calculate DebtAdjustment
1 ********************
* * *
'Input Parameters
' Interest, CB, DaysToPay, TooSmallPmt, Term, Payment
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
DATerm = 30
DAScaler = 0.90
DAPmt = BPMod.bp_MAX( BPMod.bp_PMT(Interest, DATerm, CB, DaysToPay ),
TooSmallPmt )
DebtAdjustment = BPMod.bp_IFNE( Term, DATerm, ( DAPmt - Payment ) *
DAScaler, 0 )
'Note
       DebtAdjustment is used in TotalDebt
* * *
'Calculate TotalDebt
       *******************
'Input Parameters
' CountRent, RealInc, Debt, Ins, CB, Interest, Term, WarrAllowance,
DaysToPay
' Payment, DebtAdjustment
MinRent = 250
MinDebt = BPMod.bp_MAX( BPMod.bp_MAX( CountRent, MinRent ), RealInc *
0.1) + Debt
InsDebt = BPMod.bp_IFB( BPMod.bp_IFE( Ins,0,1,0 ) * BPMod.bp_IFG(
CB,2500,1,0), CB * 0.01, 0)
WarDebtExp = BPMod.bp_PMT(Interest, Term, WarrAllowance, DaysToPay)
WarDebt = BPMod.bp_IFG( WarrAllowance,0, WarDebtExp,0 )
TotDebt = MinDebt + Payment + InsDebt - WarDebt + DebtAdjustment
'Note
        TotDebt is used in RealJob, FinalCFCalculation, DebtProblem,
Error section
* * *
'Calculate Variable Time On Job whether married or not = "RealJob"
1 * * * * * * * * * * * * * * * * * *
 'Input Parameters
 ' Job, Inc, Support, SpJob, SpInc, TotalInc, TotDebt, Spouse
JobInc = Job * ( Inc - Support )
SpJobInc = SpJob * SpInc
RealJobExp2 = ( JobInc + SpJobInc ) / TotalInc
 ' CHANGE
RealJobExp1 = BPMod.bp_IFLE( TotDebt / ( Inc - Support ),0.40,
BPMod.bp_MAX(Job, RealJobExp2), RealJobExp2)
RealJob = BPMod.bp_IFB( Spouse, RealJobExp1, Job)
        RealJob is used in JobTot, FTBBonus/SmallFTBBonus, DebtScaler
 * * *
 'Calculate JobTot to be used in Customer Factor Determination
 * * *
 'Input Parameters
 ' RealJob
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
JobPoints1 = LookupJobTable( RealJob, 2 )
ExtraTime = RealJob - LookupJobTable ( RealJob, 1 )
JobPoints2 = LookupJobTable( RealJob, 3 ) * ExtraTime
JobTot = JobPoints1 + JobPoints2
'Note
         JobTot is used in FinalCFCalculation
1**********************
'Calculate Bonus Points For FTB or Short Bureau to be used as part of
'Input Parameters
' YrsTRW, vClass, Repos, RealHiDerog, RealInc, Payment, CB, INS,
SigDown,
 PhBill, TotalDown, Price, Spouse, Resid, RealJob,
FTBINC = 1
FTBPMTRatio = 1
FTBCB = 1
FTBPhBill = 2
FTBDown = 0.20
FTBSpouse = 2
FTBResid = 3
FTBJob = 3
FTBPointsCond1 = BPMod.bp_IFLE( YrsTRW,1.1,1,0 ) * BPMod.bp_IFNE( vClass,5,1,0 ) * BPMod.bp_IFE( Repos,0,1,0 ) * BPMod.bp_IFL( RealHiDerog,3000,1,0 )
FTBPoints7 = BPMod.bp_IFGE( RealInc,1500,FTBInc,0 )
FTBPoints6 = BPMod.bp_IFLE( Payment / RealInc,0.20,FTBPoints7 +
FTBPmtRatio,FTBPoints7 )
FTBPoints5 = BPMod.bp_IFLE( CB - Ins - SigDown, 5500, FTBPoints6 +
FTBCB, FTBPoints6 )
FTBPoints4 = BPMod.bp_IFB( PhBill,FTBPoints5 + FTBPhBill,FTBPoints5 )
FTBPoints3 = BPMod.bp_IFGE( (TotalDown / Price), 0.25, FTBPoints4 + 1 + (TotalDown / Price - 0.25) / FTBDown, FTBPoints4)
FTBPoints2 = BPMod.bp_IFB( Spouse, FTBPoints3 + FTBSpouse, FTBPoints3 )
FTBPoints1 = BPMod.bp_IFGE( Resid, 2.1, FTBPoints2 +
FTBResid, FTBPoints2 )
FTBPointsExp = BPMod.bp_IFGE( RealJob, 2.1, FTBPoints1 +
FTBJob, FTBPoints1 )
FTBPoints = BPMod.bp_IFB( FTBPointsCond1, FTBPointsExp, 0 )
SmallFTBBonus = ( 1.1 - YrsTRW ) * 0.25 * BPMod.bp_MIN ( 1, FTBPoints
FTBBonus = BPMod.bp_IFG( FTBPoints,6, ( 1.1 - YrsTRW ) * 0.50 * BPMod.bp_MIN( 1, ( FTBPoints - 6 ) / 3 ), 0 )
 16)
 'Note
          FTBPoints used in MINTRW
          SmallFTBBonus used in FineTune
          FTBBonus is used in FineTune
 'Begin Special Points Model; yields FTSpecialPoints
'Hit for low job and low resid at same time = shorttimehit
 'Input Parameters
 ' Resid, Job
 STHit1 = 0.9
```

```
STHit2 = 0.6
STScaler1 = -0.10
STScaler2 = -0.20
ShortTimeHitCond1 = BPMod.bp_IFLE( Job, STHit1,1,0 ) * BPMod.bp_IFLE( Resid,STHit1,1,0 ) * BPMod.bp_IFB( Spouse, BPMod.bp_IFLE( SpJob,STHit1,1,0 ), 1 )
ShortTimeHitCond2 = BPMod.bp_IFLE( Job,STHit2,1,0 ) * BPMod.bp_IFLE( Resid,STHit2,1,0 ) * BPMod.bp_IFB( Spouse, BPMod.bp_IFLE( SpJob,STHit2,1,0 ), 1 )
ShortTimeHit1 = ( (STHit1 * STHit1 ) - ( Job * Resid ) ) * STScaler1 ShortTimeHit1 = BPMod.bp_IFB( ShortTimeHitCond2, ShortTimeHit1 + ( (STHit2 * STHit2 ) - ( Job * Resid ) ) * STScaler2, ShortTimeHit1 ) ShortTimeHit = BPMod.bp_IFB( ShortTimeHitCond1, ShortTimeHitExp1, 0 )
 ShortTimeHit is used in HICBHit, OptimalCBCredit
 'Hit For Hi Amount Financed unless override=Y; = "HICBHIT"
 'Input Parameters
 CB, INS, SigDown, ShortTimeHit, Repos, BK, TotalGood, TotalDerog,
 ' RealHiGood, RealHiDerog, TotalLessIns,
 HCBAmtFin = 8000
HCBScaler = - 0.00015
HiCBNumber = BPMod.bp_IFG( ( CB - Ins - SigDown ), HCBAmtFin, ( CB - Ins - SigDown - HCBAmtFin ) * HCBScaler, 0 )
HCO1 = BPMod.bp_IFE( ShortTimeHit, 0, 1, 0 )
HCO2 = BPMod.bp_IFE( Repos, 0, HCO1 + 1, HCO1 )
HCO3 = BPMod.bp_IFAND2( BPMod.bp_IFE( Percent 1 1 0 ) BPMod.bp_IFE( Percent 1 1 0 )
 HCO3 = BPMod.bp_IFE( Repos,0, HCOI + 1, HCOI )
HCO3 = BPMod.bp_IFAND2( BPMod.bp_IFE( Repos,1,1,0 ), BPMod.bp_IFB(
BK, 1,0 ), HCO2 + 1, HCO2 )
'HiCBOverideExp = BPMod.bp_IFGE( HCO3, 2, HCPExp, 1 )
'HiCBOveride = BPMod.bp_IFL( HiCBNumber, 0, HiCBOverideExp,1 )
'This is again corrected in miles dules assured file.
 'This is again corrected in mike dukes expression files.

HCP1 = BPMod.bp_IFGE( TotalGood, TotalDerog, 1, 0)

HCP2 = BPMod.bp_IFGE( RealHiGood, RealHiDerog, HCP1 + 1, HCP1)

HCP3 = BPMod.bp_IFGE( RealHiGood, 0.50 * ( TotalLessIns - SigDown ),
 HCP2 + 1, HCP2 )

HCPExp = BPMod.bp_IFGE( HCP3, 2, 0, 1 )

HiCBOverideExp = BPMod.bp_IFGE( HCO3, 2, HCPExp, 1 )

HiCBOveride = BPMod.bp_IFL( HiCBNumber, 0, HiCBOverideExp,1 )

HiCBHit = HiCBNumber * HiCBOveride
  'Note
               HiCBHit is used in OptimalCBCredit
                                                        **********
  'Extra Points For Optimal CB = OptimalCBCredit
  'Input Parameters
     TotalLessIns, Payment, ShortTimeHit, RealDown, Variance, HiCBHit
  OptimalCB = 5800
  AllowVariance = 1700
  OptimalPoints = 0.13
  Variance = ABS( TotalLessIns - OptimalCB )
  OptimalCBExp1 = BPMod.bp_IFB( BPMod.bp_IFGE( Payment, 240, 1,0 ) *
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
BPMod.bp_IFE( ShortTimeHit, 0, 1, 0 ) * BPMod.bp_IFGE( RealDown,
1000, 1, 0 ),(1 - Variance / AllowVariance ) * OptimalPoints, 0 )
OptimalCBTedit = BPMod.bp_IFL( Variance, AllowVariance,
OptimalCBExp1, 0 )
FTSpecialPoints = OptimalCBCredit + HiCBHit + ShortTimeHit
         FTSpecialPoints is used in FineTune
* * *
'FineTune Model to be added to customerfactor = "FineTune"
'Input Parameters
' FTBBonus, SmallFTBBonus, BKBonus, PhBill, TotalDerog, TotalGood,
' EquityTest, TotalLessIns, MaxCB, Ins, RealHiDerog, YrsTRW, Repos,
BK, INSFlag
FTBonus = FTBBonus + SmallFTBBonus + BKBonus
FTPhBill = BPMod.bp_IFAND2( BPMod.bp_IFB( PhBill, 1, 0
),BPMod.bp_IFL( TotalDerog + TotalGood, 4, 1, 0 ), 0.12, 0 )
FTDerogHit = BPMod.bp_IFG( TotalDerog, 4, -0.05 - 0.01 * (
TotalDerog - 5 ), 0 )
FTSigDown = SigDown * .0001 + BPMod.bp_IFG( SigDown, 2000, ( SigDown - 2000 ) * .0001, 0 )
FTEquity = 0.75 - EquityTest + BPMod.bp_MAX( 0.6 - EquityTest, 0 )
FTBuyIFBreathing = BPMod.bp_MAX(FTSigDown, FTEquity)
BPMod.bp_IFOR2(BPMod.bp_IFL(TotalLessIns, (MaxCB - Ins) * 0.75, 1, 0), BPMod.bp_IFGE(SigDown, 1000, 1, 0), 1, 0)
FTSmallHiDerog = BPMod.bp_IFB(BPMod.bp_IFE(TotalGood, 0, 1, 0) * BPMod.bp_IFLE(RealHiDerog, 500, 1, 0) * BPMod.bp_IFG(YrsTRW, 1, 1, 1, 1, 1)
0), 0.\overline{30}, 0)
FTBHD = BPMod.bp_IFB( BPMod.bp_IFGE( RealHiDerog, 2700, 1, 0 ) *
BPMod.bp_IFB( BK, 0, 1 ) * BPMod.bp_IFE ( Repos, 0, 1, 0 ),(
RealHiDerog / 8000 ) * - 0.60, 0 )
FTBigHiDerog = BPMod.bp_MAX( - 0.50,FTBHD )
InsCantFindErr = BPMod.bp_IFB( InsFlag, LookupIns( TotalLessIns,3 ),
FineTune = FTSpecialPoints + FTBigHiDerog + FTSmallHiDerog +
FTBuyIFBreathing + FTDerogHit + FTPhBill + FTBonus + InsCantFindErr
 'Note
 ' FineTune is used in FinalCFCalculation
                                            *********
 'Begin Final Customer Factor Calculation -- Add Up "F" Variables
 'Input Parameters
   YrsTRW, JobTot, ResidTot, TotalGood, RealHiGood, TotalDerog, Bk,
 TotalLessIns,
 ' EquityTest, RealHiDerog, BK, Home, RealInc, SpJob, SpGood, Spouse,
 Cox, FineTune
 CFTRWScaler = 0.75
 CFJobScaler = 0.90
 CFResidScaler = 0.60
 CFHiGoodScaler = 0.90
 CFBKScaler = 1.00
CFHomeScaler = 0.80
 CFIncScaler = 0.075
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
CFDebtScaler = 1.00
TRWPart = BPMod.bp_IFL ( YrsTRW, 2, BPMod.bp_MIN( YrsTRW * 0.5, 0.9 ), BPMod.bp_MIN( 0.7 + YrsTRW * 0.1, 1 ) ) FTRW = TRWPart * CFTRWScaler
JobPart = JobTot / 10
FJob = JobPart * CFJobScaler
ResidPart = ResidTot / 10
FResid = ResidPart * CFResidScaler
GoodPart = BPMod.bp_IFL ( TotalGood, 2, TotalGood * 0.5,
BPMod.bp_MIN( 0.5 + TotalGood * 0.1, 1 ) )
FGood = GoodPart * GoodScaler
HiGoodPart = BPMod.bp_IFL ( RealHiGood, 20000, 0.5 * RealHiGood /
20000, 0.5)
FHiGood = HiGoodPart * CFHiGoodScaler
DerogPart = BPMod.bp_IFL ( TotalDerog, 4, TotalDerog * - 0.25, - 0.5
- TotalDerog * 0.1 )

BKDerog = BPMod.bp_IFB ( BK, 0.7, 1 )

FDerog = BPMod.bp_MAX( DerogPart * BadScaler, - 1.05 ) * BKDerog
CFPhBillScaler = BPMod.bp_IFL( TotalLessIns, 4000, 0.8, 0.65 ) * 20 /
PhBillPart = BPMod.bp_IFB ( PhBill, BPMod.bp_IFL ( EquityTest, 0.90, 0.33, 0.33 * 0.80 ), 0 )
FPhBill = PhBillPart * CFPhBillScaler
Term
RepoPart = Repos * - 0.25
CFRepoScaler = BPMod.bp_IFG( RealHiDerog, 1000, 2, BPMod.bp_MAX( 1, RealHiDerog * .002 ) )
FRepo = RepoPart * CFRepoScaler
 BKPart = BPMod.bp_IFB(BK, - 0.5, 0)
FBK = BKPart * CFBKScaler
 'CHANGE
HomePart = BPMod.bp_IFB ( Home, 2/3, 0 )
 'CHANGE--ADD THIS
 HomePartScaler= 0.4 + 0.4*(BPMod.bp_IFG (RealHiGood, 30000,
RealHiGood-30000, 0)/70000)

FHome = HomePart * BPMod.bp_MIN( CFHomeScaler, HomePartScaler)
 IncPart = BPMod.bp_IFL ( RealInc, 3000, RealInc / 2000, BPMod.bp_MIN(
 RealInc,12000 ) / 1800 )
Finc = IncPart * CFIncScaler
DebtPart = BPMod.bp_IFGE ( TotDebt / RealInc, 0.55, - 0.1,
BPMod.bp_MIN( 0.7 - TotDebt / RealInc, 0.5 ) )
FDebt = DebtPart * CFDebtScaler
 CFSpouseScaler = BPMod.bp_IFLE( YrsTRW, 1, 0.5, 0.35 )
WorthlessSpouse = BPMod.bp_IFAND2( BPMod.bp_IFLE( SpJob, 0, 1, 0), BPMod.bp_IFLE( SpGood, 0, 1, 0), 0, 1)
SpousePart = BPMod.bp_IFB ( Spouse, 0.5, 0 ) * WorthlessSpouse
FSpouse = SpousePart * CFSpouseScaler
 CoxPart = BPMod.bp_IFB ( Cox, 0.5, 0 )
 CFCoxScaler = CoxScaler / 10
 FCox = CoxPart * CFCoxScaler
 TotalCFPoints = FTRW + FJob + FResid + FGood + FHiGood + FDerog + FPhBill + FRepo + FBK + FHome + FInc + FDebt + FSpouse + FCox +
 CustFact = BpMod.bp_ROUND(BPMod.bp_MAX(BPMod.bp_MIN(TotalCFPoints, 5
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
), 0.001 ) * 0.98, 2)
'Note
           DebtPart is used in Error Section
           FCox is used in Error Section
           CustFact is used in ExcessTerm Determination, XTerm,
CFComponent =
                      CFAllowance, DownPayment Probability, MinFact,
KinKTerm,
                      FinalReserve, Error Section
'Customer Factor Calculation ends here
***
'Calculate Scaler if good customer with high debt = "debtscaler"
* * *
'Input Parameters
' TotalLessIns, RealInc, RealJob, YrsTRW, TotalDerog, RealHiDerog,
TotalGood
DebtScaler_exp1 = BPMod.bp_IFOR2( BPMod.bp_IFLE( TotalLessIns, RealInc
* 5,1,0 ), BPMod.bp_IFLE( TotalLessIns, 4500,1,0 ),1,0 )
DebtScaler_exp2 = BPMod.bp_IFGE( RealJob, 1, 1, 0)
DebtScaler_exp3 = BPMod.bp_IFGE( YrsTRW, 1, 1, 0)
DebtScaler_exp4 = BPMod.bp_IFGE( BPMod.bp_IFLE( TotalDerog, 1, 1, 0)
DebtScaler_exp4 = BPMod.bp_IFUK2( BPMod.bp_IFLE( TotalDerog,1,1,0)), BPMod.bp_IFLE( RealHiDerog,400,1,0),1,0))
DebtScaler_exp5 = BPMod.bp_IFLE( TotalGood,4,1,0))
DebtScaler_exp6 = BPMod.bp_IFL( TotalGood,TotalDerog,1,0))
DebtScaler_exp7 = BPMod.bp_IFL( RealInc,1700,1,0))
DebtScaler_exp7 = BPMod.bp_IFL( RealInc,1700,1,0))
DebtScaler_exp3 * DebtScaler_exp4 * DebtScaler_exp5 * DebtScaler_exp6
* DebtScaler_exp7
DSInc = BPMod.bp_MAX( RealInc, 1200 ) DebScalerExp = 0.5 + (DSInc - 1200) / 1000
DebtScaler = BPMod.bp_IFB( DebtScalerCondition,DebScalerExp,1 )
 'Note
           DebtScaler is used in DebtProblem, PPAdjust
* * *
'Calculate debt ratio hit for pay prob adjustments = "debtproblem"
'Input Parameters
 'RealInc, TotDebt, EquityTest, DebtScaler
DebtRatio = RealInc / TotDebt
DebtHisExp = BPMod.bp_IFLE( DebtRatio, 2, 0.225 + ( 2 - DebtRatio ) * 0.6, ( 2.5 - DebtRatio ) * 0.45 )
DebtHit = BPMod.bp_IFLE( DebtRatio, 2.5, DebtHisExp, 0 )
DHMax1 = BPMod.bp_MAX( 0.95 - EquityTest, 0 )
DHMax2 = BPMod.bp_MAX( 0.75 - EquityTest, 0 )
DebtHitScaler = 1.05 - DHMax1 - DHMax2
DebtProblem = DebtHit * DebtHitScaler * DebtScaler
```

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```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
'Note
            DebtProblem is used in PPAdjust
'Input Parameters
' SigDown, Payment, CustFact, vClass, Miles, CarAge, CB, INS, Ins
FreeGetNone = 1.75
FreeGetAl1 = 2.30
SBGetNone = 2.75
SBGetAll = 3.25
BaseTerm = 31
MinPmt = 255 - (SigDown / 75)
OKPmt = BPMod.bp_IFGE( Payment, MinPmt, 1, 0 )
RegularFreeTerm = BPMod.bp_IFG( CustFact, FreeGetNone, 1, 0 )
YEMiles = LookupTermTable( vClass, 2
YEAge = LookupTermTable( vClass, 3 )
MEAge = LookupTermTable( vClass, 4 )
MEMiles = LookupTermTable( vClass, 5
FreeTermPercent = BPMod.bp_MIN( ( CustFact - FreeGetNone ) / (
FreeGetAll - FreeGetNone ), 1 )
Term4NewerCar = BPMod.bp_IFLE( Miles, YEMiles, BPMod.bp_MAX( YEAge -
CarAge, 0 ), 0 ) * FreeTermPercent

Term4LowMiCar = BPMod.bp_IFLE( CarAge, MEAge, BPMod.bp_MAX( ( MEMiles - Miles ) / 5000, 0 ), 0 ) * FreeTermPercent

StrongBuyerFreeTerm = BPMod.bp_IFG ( CustFact, SBGetNone, 1, 0 )
SBAge = LookupTermTable( vClass, 6
SBMiles = LookupTermTable( vClass, 6 )
SBFreeTermPercent = BPMod.bp_MIN( ( CustFact - SBGetNone ) / (
SBGetAll - SBGetNone), 1)
Term4StrongBuyer = BPMod.bp_IFAND2( BPMod.bp_IFLE ( CarAge, SBAge, 1, 0 ), BPMod.bp_IFLE ( Miles, SBMiles, 1, 0 ), 3 * SBFreeTermPercent, 0 )
QualifyFreeTerm = BPMod.bp_IFAND2( BPMod.bp_IFB( RegularFreeTerm, 1,
QualifyFreeTerm = BFMod.bp_IFAND2( BFMod.bp_IFB( RegularFreeTerm 0 ),BPMod.bp_IFB( StrongBuyerFreeTerm, 1, 0 ),Term4NewerCar + Term4LowMiCar + Term4StrongBuyer,BPMod.bp_IFB ( RegularFreeTerm, Term4NewerCar + Term4LowMiCar, 0 ) )
FreeTerm = BPMod.bp_IFG( Term, BaseTerm, BPMod.bp_MIN( QualifyFreeTerm, Term - BaseTerm ), 0 ) * OKPmt
OKTerm = BaseTerm + FreeTerm
BuyTerm = BPMod.bp_MAX( Term - OKTerm, 0 )
ExTermScaler = (CustFact - 1) / 1.75 * 0.01
ExcessCharge = BPMod.bp_IFG ( CustFact, 1, 0.015 - ExTermScaler,
CostPerMonth = BPMod.bp_MAX( ExcessCharge, .005 )
PmtBelow250 = BPMod.bp_IFL ( Payment, 250, 1000, 1 )
TooLong = BPMod.bp_IFG ( BuyTerm, 6, 1000, 1 )
MustBuyTerm = BPMod.bp_IFGE ( BuyTerm, 0, 1, 0 )
ExTerm = BPMod.bp_IFB( MustBuyTerm, CostPerMonth * BuyTerm *
PmtBelow250 * TooLong, 0 ) * ( CB - Ins - WarrAllowance )
'ExTerm Determination Ends Here
 'Note
             FreeTerm is used in Xterm
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
      BuyTerm is used in Xterm
     ExTerm is used in Down Payment Probability, SpreadNum, Final
Reserve,
           Error Section
* * *
'Primary term hit/helper = xterm
* * *
'Input Parameters
' CustFact, CarAge, vClass, MaxCB, Ins, Miles, Term
TermCust = CustFact * 20
KentTerm = ( 12 - CarAge ) * 6
ClassTerm = 5 - vClass
ClassScaler = ClassTerm / 5
CBTerm = BPMod.bp_IFG ( ( MaxCB - Ins ), 6000, ( MaxCB - Ins - 6000 )
/ 500, 0 )
TermCFScaler = BPMod.bp_IFG ( CustFact, 1, BPMod.bp_MIN( CustFact -
1, 1 ), 0 )
TermCar = KentTerm + ( ClassTerm + CBTerm * ClassScaler ) *
TermCFScaler
TermMaxMiles = 180000 - (vClass * 10000)
SubtractTerm = BPMod.bp_IFG( Miles, TermMaxMiles, ( ( Miles - TermMaxMiles ) / 10000 ) * vClass / 2, 0 )
TermMax = BPMod.bp_MIN( TermCar, TermCust ) + BuyTerm * 0.5 +
FreeTerm * 0.5 - SubtractTerm
XTerm = Term - TermMax
'Note
      XTerm is used in PPAdjust
                        _
************
* * *
'OK Till Here
'Calculate InputDiscount
'Note separated the input discount to calculate from down payment
probability
* * *
'Input Parameters
' CustFact, Reserve
FedExTax = BPMod.bp_IFGE( CustFact, 2.5, 0, BPMod.bp_MIN( ( 2.5 -
CustFact ) * 76, 39 ) )
InputDiscount = Reserve - FedExTax
'Note
      InputDiscount is used in downpayment probability, spreadnum,
Error Section
***
* * *
                              PAYMENT PROBABILITY MODEL
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
'CUSTOMER FACTOR COMPONENT = "CFALLOWANCE"
'Input Parameters
' CustFact
CFSMin = LookupCFScalerTable(CustFact, 1)
CFSBase = LookupCFScalerTable(CustFact, 2)
CFSExtra = LookupCFScalerTable(CustFact, 3)
CustFactScaler = CFSBase + ( CustFact - CFSMin ) * CFSExtra
CFAllowance = CustFactScaler * CustFact
CFAllowance used in calculating PayProb
'Down Payment Probability="DownPrice"
'Input Parameters
' Price, InputDiscount, SigDown, ExTerm
'FedExTax = BPMod.bp_IFGE( CustFact, 2.5, 0, BPMod.bp_MIN( ( 2.5 - CustFact ) * 76, 39 ) )
'InputDiscount = Reserve - FedExTax
DownAllowance = ( Price * 0.2 ) + InputDiscount + SigDown - ExTerm
DownPrice = DownAllowance / Price
DownPrice usedin calculating PayProb
* * *
'OVERALL SCALER
1 *********************
* * *
PPScaler = 0.95
'Note
      PPScaler is used in calculating PayProb
'ADJUSTMENTS = "PPADJUST"
                 ***********
* * *
'Input Parameters
DebtProblem, CrapRatio, DebtScaler, Payment, Term, Xterm
StupidNum = 8
StupidTerm = 17
PPDebt = DebtProblem * - 0.7
PPCrap = (CrapRatio * DebtScaler) * - 1
PPStupid = BPMod.bp_IFB( BPMod.bp_IFL( Payment / Term, StupidNum, 1, 0)
* BPMod.bp_IFGE( Term, StupidTerm, 1, 0 ), ( StupidNum - Payment / Term ) * - 0.1, 0 )

PPTerm = XTerm * - 0.01
PPAdjust = PPTerm + PPDebt + PPStupid + PPCrap
'Note
       PPStupid is used in Error Section
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
      PPTerm is used in Error Section
      PPAdjust is used to calculate PayProb
PayProb = CFAllowance * DownPrice * PPScaler + PPAdjust
'Note
      PayProb is used in SpreadNum
                           ***********
                              End Payment Probability
* * *
'DISCOUNT NEEDED BASED ON PAYMENT PROBABILITY MODEL = "SPREADNUM"
    **************
'Input Parameters
' PayProb, InputDiscount, TotalLessIns, WarrAllowance, ExTerm,
DiscountAllow
' CB, Ins, WarrAllowance
SpreadNumScaler = 0.50
SpreadReq = 0.12
LossProb = BPMod.bp_MIN ( 1 - PayProb, 1.1 )
DiscountAllow = InputDiscount * 2
LossAmount = LossProb * ( TotalLessIns - WarrAllowance ) + ExTerm -
DiscountAllow
Spread = SpreadReq * ( CB - Ins - WarrAllowance )
SpreadNum = ( LossAmount + Spread ) * SpreadNumScaler
'Note
SpreadNum is used in Final Reserve
'MINIMUM % DISCOUNT AREA
* * *
'Input Parameters
' Repos, BK
MinRepoExp3 = BPMod.bp_CASE3( repos, 1, 2, 3, 0.125, 0.20, 0.35, 0.50
MinRepoExp2 = BPMod.bp_CASE2( repos, 1, 2, 0.10, 0.175, 0.30 )
MinRepoExp1 = BPMod.bp_IFB( BK,MinRepoExp2, MinRepoExp3 )
MinRepo = BPMod.bp_IFE( Repos, 0, 0.10, MinRepoExp1 )
'Note
MinRepo is used in FinalReserve
'CALCULATE MIN % DISCOUNT BASED ON HI DEROG = "MINDEROG"
***
'Input Parameters
' RealHiDerog, BK, MinDiscount
MinDiscHiDerog = 0.12
```

```
MinDerog = BPMod.bp_IFB( BPMod.bp_IFGE( RealHiDerog, 3000, 1, 0 ) *
BPMod.bp_IFE( BK, 0, 1, 0 ), MinDiscHiDerog, MinDiscount )
'Note
        1 * * * * * * * * * * * * * * * * *
***
***
'Input Parameters
' TotalDown, RealInc, TotalGood, Home, Spouse, RealHiGood, BK,
YrsTRW, vClass
 MinDiscount
MBKDown = 1
MBKInc = 3
MBKHome = 1
MBKSpouse = 1
MBKMinPoints = 6
MinDiscStrongBK = 0.11
MinDiscRegularBK = 0.15
MBKGood = 3
MBKHiGood = 3
BKPoints6 = BPMod.bp_IFGE( TotalDown,3000,MBKDown,0 )
BKPoints5 = BPMod.bp_IFGE( RealInc,3000,BKPoints6 + MBKInc,BKPoints6
BKPoints4 = BPMod.bp_IFGE( TotalGood, 8, BKPoints5 + MBKGood, BKPoints5
BKPoints3 = BPMod.bp_IFB( Home, BKPoints4 + MBKHome, BKPoints4 )
BKPoints2 = BPMod.bp_IFB( Spouse, BKPoints3 + MBKSpouse, BKPoints3 )
BKPoints1 = BPMod.bp_IFGE( RealHiGood, 10000, BKPoints2 +
MBKHiGood, BKPoints2 )
MinBKExp2 = BPMod.bp_IFGE( BKPoints1, MBKMinPoints, MinDiscStrongBK,
MinDiscRegularBK )
MinBKCon = BPMod.bp_IFB( BK,1,0 ) * BPMod.bp_IFGE( RealInc,2400,1,0 ) * BPMod.bp_IFGE( TotalGood,5,1,0 ) * BPMod.bp_IFGE( YrsTRW,8,1,0 ) * BPMod.bp_IFNE( vClass,5,1,0 ) MinBKExp1 = BPMod.bp_IFB( MinBKCon, MinBKExp2,MinDiscRegularBK ) MinBK = BPMod.bp_IFB( BK,MinBKExp1,MinDiscount )
'Note
         MinBK is used in FinalReserve and BKBonus
         BKBonus is defined above so that should be redefined or this
needs to
        move up there somewhere
* * *
'CALCULATE MIN % DISCOUNT BASED ON LOW TIME ON BUREAU = "MINTRW"
'Input Parameters
' FTBPoints, CoxScaler, YrsTRW
MinTRWExp = BPMod.bp_IFOR2( BPMod.bp_IFGE( FTBPoints,9,1,0 ),
BPMod.bp_IFGE( CoxScaler, 30, 1, 0 ), 0.125 - ( YrsTRW / 40 ), 0.15 - ( YrsTRW / 20 ))
MinTRW = BPMod.bp_IFL( YrsTRW, 1, MinTRWExp , 0.10 )
'Note
        MinTRW is used in Final Reserve
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
***
'CALCULATE MIN % DISCOUNT BASED ON CustFact= "MINFact"
'Input Parameters
' SigDown, TotalLessIns, WarrAllowance, CustFact, MinDiscount
FactMinDisc = 0.3
SigDownHelper = (SigDown * 0.25) / (TotalLessIns - WarrAllowance)
Below75 = BPMod.bp_IFL(CustFact, 0.75, 1, 0)
Below75Hit = BPMod.bp_IFL(CustFact, 0.35, .2, (75 - (CustFact *
Below/5Hit = BPMod.bp_IFL( Custract, 0.35, .2, ( /5 - ( Custract 100 ) ) * .005 )

Below35 = BPMod.bp_IFL( CustFact, 0.35, 1, 0 )

Below20 = BPMod.bp_IFL( CustFact, 0.20, 1, 0 )

LowBalScaler = BPMod.bp_IFLE( TotalLessIns, 2000, 0.50, BPMod.bp_IFLE( TotalLessIns, 3000, 1 - ( ( 3000 - TotalLessIns ) / 1000 ) * 0.50, 1 ) )

MinFact75 = ( FactMinDisc + Below75Hit - SigDownHelper ) * LowBalScaler
LowBalScaler
MinFact35 = BPMod.bp_IFB( Below35, BPMod.bp_IFB( Below20, 10, BPMod.bp_IFG( TotalLessIns, 3000, 10, 0 )), 0 )
MinFact = BPMod.bp_IFB( Below75, BPMod.bp_MAX( MinFact75, MinFact35
), MinDiscount )
'Note
           MinFact is used in FinalReserve
'ADDITIONAL DISCOUNT FOR KINKY TERM = "KINKTERM"
**********************
'Input Parameters
' Term, CarAge, Miles, CustFact
CostPerKinkPoint = 2
KinkAge = 8
KinkMiles = 120000
KinkCF = 1.70
KinkMaxTerm = 28
TermIsKinky = BPMod.bp_IFG( Term, KinkMaxTerm, 1, 0 )
KinkSubtot = BPMod.bp_MAX( CarAge - KinkAge, 0 ) + BPMod.bp_MAX(
Miles - KinkMiles, 0 ) / 10000
PointsFromCF = BPMod.bp_MAX( KinkCF - CustFact, 0 ) * 10 * KinkSubTot
OverMax = BPMod.bp_MIN( BPMod.bp_MAX( Term - KinkMaxTerm, 0 ), 3 )
TotalKinkPoints = ( KinkSubtot * OverMax ) + ( KinkSubtot *
PointsFromCF * OverMax )
KinkTerm = BPMod.bp_IFB( TermIsKinky, TotalKinkPoints *
CostPerKinkPoint, 0 )
 'Note
            KinkTerm is used in Final Reserve, Error Section
 * * *
 'Get Final Reserve
```

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
* * *
'Input Parameters
'CustFact, MinDerog, MinTrw, MinBK, MinRepo, MinFact, MinDiscount, 'TotalLessIns, WarrAllowance, MinDisc, SpreadNum, Term, Payment
MinDisc = BPMod.bp_IFGE( CustFact, 2.5, 300, BPMod.bp_MIN( (2.5 - CustFact) * 88 + 300, 344))
MinPercent = BPMod.bp_MAX( BPMod.bp_MAX( BPMod.bp_MAX( MinDerog, MAX( MinDero
MinTRW ), BPMod.bp_MAX( MinBK, MinRepo ) ), BPMod.bp_MAX( MinFact,
MinDiscount ) )
MinReserve = MinPercent * ( TotalLessIns - WarrAllowance )
FinalSubtot = BPMod.bp_MAX( BPMod.bp_MAX( MinDisc, MinReserve ),
SpreadNum )
TooMuchTerm = BPMod.bp_IFG( Term, 48, 50000, 0 )
PmtTooSmall = BPMod.bp_IFL( Payment, TooSmallPmt, 50000, 0 )
FinalReserve = FinalSubtot + KinkTerm + ExTerm + TooMuchTerm +
PmtTooSmall
 'Note
                MinDisc is used in Error Section
                MinReserve is used in Error Section
                FinalReserve is used Error Section and StrucOk var
 ***
 'GET OVERADVANCE AND CHECK TO DEALERS
 **************
 * * *
 'Input Parameters
   CB, MaxCB, INS, Reserve, ACQFEE
REALOA=BPMod.bp_IFG(CB, MAXCB, CB-MAXCB, 0.00)
CheckToDealer=CB-INS-RESERVE-ACQFEE-REALOA
OA=Round(REALOA+0.50, 0)
  'Note
                RealOA is used in Error Section
                 CheckToDealer is an output
                OA is used in Error Section
 'Taken care when we found realinc
'if RealInc <= 0 then
' RealInc = 1
 'end if
 'HINT AND ERROR SECTION
  'NEED THE FOLLOWING TO BEGIN HINTS
  * * *
 DebtP= TotDebt/RealInc
 DebtDiff= DebtP - 0.55
 LessDebt= DebtDiff*RealInc + 5
 GetDown= (2000-RealDown) *0.8
 LowerPrice= (1000-SigDown-GetDown)/0.8
  'CHANGE
 if repos > 3 then
 hint1 = " Wow! " + formatnumber(repos, 0) + " repossessions!!! "
 end if
```

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'CHANGE

end if

```
File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
'CHANGE
if repos > 2 then
hint2 = " But... " + formatnumber(repos,0) + " repossessions?
Forget the phone bill, get a blood sample.
end if
'CHANGE
if ((PPStupid+PPTerm < -0.15) and (FinalReserve > (CB-Ins)*0.15) and
(FinalReserve > 500)) then
hint3 = " You could do better with a shorter term.
end if
'CHANGE
if ((DealerGross < 0) and (RealInc < 1400)) then
hint4= " Try a less expensive car for this income so you can make a better deal."
end if
'CHANGE
if ((CustFact < 0.75) and (MinRepo*(TotalLessIns-WarrAllowance) <=
FinalReserve-200)) then
hint5= " Try a lower price, or more down, or a shorter term. might make a better deal. "
end if
'CHANGE
if ((YrsTRW = 0)) and (Good > 0) and (Good < 3)) then
hint6= " Make sure you get documentation showing the good credit. No
rental, medical, or dental.
end if
'CHANGE
if ((Home = 1) and (HiGood < 30000)) then
hint7= " If the house is not on the credit bureau, then make sure to
send proof of home-owner.
end if
'CHANGE
'if ((Miles <> 117545) or (Price <> 6995)) then
if (InputDiscount >= FinalReserve) then
hint8= " It's a deal!
end if
'CHANGE
if (Miles < 100000 and (BPMod.bp_THISYEAR-CarYear > 9)) then hint9= "Better check the miles. If the car is over 10 years old, you have to input at least 100,000 miles."
end if
'CHANGE
if Miles < (BPMod.bp_THISYEAR-CarYear) *7000 then
hint10= " Check your miles. Your input is very low, unless the last
owner was my grandmother."
end if
 'CHANGE
if repos >= 5 then
hint11= " Like a '72 Pinto.
end if
 'CHANGE
if ((Repos > 0) and (HiDerog < 3000)) then hint12= "Don't forget that the Hi Derog is the amount of the loan, not how much was charged off. "
end if
```

if BK = 1 then
hint13= " Bankruptcy must be discharged. "

```
'CHANGE
if ((YrsTRW = 0)) and (Good > 2)) then
hint14= " You can't have more than 2 good credit items that are not
on the bureau.
end if
'CHANGE
if ((Job > 2) and (Resid > 2) and (Job = Resid)) then hint15= " If this is a military deal, don't forget to send a completed Mac allotment. Must be rank of E3 or higher. "
end if
'CHANGE
if Support > 0 then
hint16= " Remember not to count Family Support accounts as Good or
Derog. "
end īf
'CHANGE
if ((DebtPart < 0) and (LessDebt < 40) and (FinalReserve >=
BPMod.bp_MAX(MinDisc, MinReserve) + KinkTerm + ExTerm + 100) and (Payment-LessDebt > 170)) then
hint17= " You can make a better deal if you use Price and Down to get the payment about " + formatnumber(LessDebt,0) + " dollars lower. "
end if
' CHANGE
if ((DebtPart < 0) and (LessDebt > 40) and (FinalReserve >=
BPMod.bp_MAX(MinDisc, MinReserve) + KinkTerm + ExTerm + 100) and (Payment-LessDebt > 170)) then
hint18= " You could make a lot better deal if the payment was " +
formatnumber(LessDebt, 0) + " dollars lower. Try a less expensive
car.
end if
'CHANGE
if GetDown+SigDown <= 1000 then
hint19= " And lower the Price by about " + formatnumber(LowerPrice,
0) + " dollars.
end if
 'CHANGE
if ((SigDown \geq 850) and (SigDown < 1000) and (FinalReserve \geq
BPMod.bp_MAX(MinDisc, MinReserve) + KinkTerm + ExTerm + 100)) then
   if RealDown < 2000 then hint20= " You might do better if you get 2000 dollars down. "
+hint19
   else
hint20= " You might do better if you lower the Price by about " + formatnumber((1000-SigDown)/0.8, 0) + " dollars. "
   end if
 end if
 ' CHANGE
hint22= " Try putting down " + dollarString(OA,0) + " more, or
 lower the price.'
if ((CustFact > 1.0000000000) and (OA > 0)) then
  hint21= "Try putting down " + formatnumber(OA,0) + " dollars
more, or reserve the O-A, then:"
   else if (OA > 0) then
hint21= ""
      hint25=hint22
      hint8= ""
   end if
 end if
 if (CustFact < 1.000000000) then
   hint23= " You can't reserve the O-A, because the Customer Factor
 has to be over 1. "
 else
```

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File: Z:\BP3.11\Data\California\exp.bpD 1/3/2002, 4:51:57PM
  hint23= ""
end if
' hint24= " You can't reserve the O-A, because the Car Class cannot be 5. "
'else
  hint24= ""
'end if
'[ERROR CHECKING]
DeathErr4 = BPMod.bp_IFG( KinkTerm,( CB - Ins ) * .1, 4, 0 )
DeathErr3 = BPMod.bp_IFL( Payment, TooSmallPmt, 3, DeathErr4 )
DeathErr2 = BPMod.bp_IFGE( ExTerm, 0.25 * ( CB - Ins ), 2, DeathErr3
DeathErr1 = BPMod.bp_IFG( Term, 48, 1, DeathErr2 )
Err9 = BPMod.bp_IFL( FCox,0,9,10 )
Err8 = BPMod.bp_IFG( KinkTerm,( CB - Ins ) * .02, 8, Err9 )
'Err7 = BPMod.bp_IFG( CB, MAXCB, 7, Err8 )
if (CB-MAXCB <= 0.00) then
  Err7 = Err8
  else
  if (CB-MAXCB < 300) then
    Err7 = 12
    else
    if (CB-MAXCB <= 1000) then ' [o/a is between 300 and 1000,
inclusive]
      Err7 = 7
       else
       Err7 = 11
    end if
end if end if
Err6 = BPMod.bp_IFL( Reserve, 300, 6, Err7 )
Err5 = BPMod.bp_IFL( Reserve, .10 * ( CB - Ins - WarrAllowance ), 5,
Err6 )
ErrCode = BPMod.bp_IFG( FinalReserve, CB, DeathErr1, Err5 )
Errstr = ErrLookup(ErrCode)
'_____Added for Stand Alone
Errstr = ErrLookup(ErrCode)
NoDollarOA=FormatNumber(REALOA, 0)
if (REALOA = 0.00) then
  OAStr = ""
else
  OAStr = "$ " & FormatNumber(OA,0)
end if
* * *
'Structure OK and Amount OK
 'Input Parameters
 ' InputDiscount, FinalReserve, CB, MAXCB
StructOK = InputDiscount >= FinalReserve
AMTOK = CB <= MAXCB
 'Note
```

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```
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```

Set BPMod = Nothing

If Err.Number <> 0 then
 SystemError = Err.Description
End if

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CA LOOKUP TABLES.TXT '<%Template=California%> <%Version=04.30.2001%> function dollarString(no, n) if (no >= 0.00) and (no <= 1.001) then dollarString = formatnumber(no, n) + " dollar " else dollarString = formatnumber(no, n) + " dollars " end if end function ErrDisp = "" function LookupIns (vAmt, vCol) if vAmt < 0 then LookupIns = 0else Select Case vCol Case 1 select case true vAmt >= 0 and vAmt <= 500Case (vAmt >= 501 and vAmt <= 750501 vAmt >= 751 and vAmt <= 1000751 vAmt >= 1001 and vAmt <= 1200) X = 1001 1201 vAmt >= 1201 and vAmt <= 1400Case vAmt >= 1401 and vAmt <= 16001401 Case X = vAmt >= 1601 and vAmt <= 18001601 Case vAmt >= 1801 and vAmt <= 20001801 X = X = vAmt >= 2001 and vAmt <= 22002001 vAmt >= 2201 and vAmt <=2400 X = 2201 Case 2401 Case vAmt >= 2401 and vAmt <= 2600 Х 2601 2800 X = vAmt >= 2601 and vAmt <= Case 3000 2801 2801 and VAmt <= Case vAmt >= 3001 vAmt >= 3001 and vAmt <= 3200 Case 3400 3201 vAmt >= 3201 and vAmt <=Case 3401 vAmt >= 3401 and vAmt <=3600 X = Case 3800 X = 3601 Case vAmt >= 3601 and vAmt <=3801 vAmt >= 3801 and vAmt <= 4000X =Case vAmt >= 4001 and vAmt <= 42004001 Case X = 4201 Case vAmt >= 4201 and vAmt <=4400 4401 X =vAmt >= 4401 and vAmt <= 4600Case vAmt >= 4601 and vAmt <=4800 X = 4601 Case vAmt >= 4801 and vAmt <=5000 4801 Case vAmt >= 5001 and vAmt <=5200 5001 Case vAmt >= 5201 and vAmt <= 5400X = 5201 Case X = 5401 vAmt >= 5401 and vAmt <= 5600Case vAmt >= 5601 and vAmt <= 5800Х 5601 Case vAmt >= 5801 and vAmt <= 6000Χ 5801 Case Х 6001 Case vAmt >= 6001 and vAmt <= 6500vAmt >= 6501 and vAmt <=6501 7000 X =Case vAmt >= 7001 and vAmt <=7500 X =7001 Case vAmt >= 7501 and vAmt <= 80007501 Case vAmt >= 8001 and vAmt <=8001 Case vAmt >= 8501 and vAmt <= 9000X = 8501 Case vAmt >= 9001 and vAmt <= 95009001 X = vAmt >= 9501 and vAmt <= 100009501 Case (vAmt >= 10001 and vAmt <= 1000000) X =10001 End Select Case 2 select case true 173 Case (vAmt >= 0 and vAmt < 501) X =Case (vAmt >= 501 and vAmt < 751) X =209 Case (vAmt >= 751 and vAmt < 1001) X = 250 Page 1

Case 3

```
CA LOOKUP TABLES.TXT
Case ( vAmt >= 1001 and vAmt < 1201
                                                      278
                                 < 1401
                                                      304
        vAmt >= 1201 and vAmt
Case
                                                      327
        vAmt >= 1401 and vAmt < 1601
Case
        vAmt >= 1601 and vAmt < 1801
                                                      344
Case
        vAmt >= 1801 and vAmt < 2001
                                                      366
Case
                                                      390
        vAmt >= 2001 and vAmt < 2201
Case
                                                      409
        vAmt >= 2201 and vAmt < 2401
Case
        vAmt >= 2401 and vAmt < 2601
                                                      431
Case (
        vAmt >= 2601 and vAmt < 2801
                                                      446
Case (
        vAmt >=
                                                      467
Case (
                 2801 and vAmt < 3001
                 3001 and vAmt < 3201
                                                      486
        vAmt >=
Case
                 3201 \text{ and } \text{vAmt} < 3401
                                             X =
                                                      509
Case
        vAmt >=
                                                      526
        vAmt >= 3401 \text{ and } vAmt < 3601
Case
        vAmt >= 3601 and vAmt < 3801
                                                      545
Case
                                           ) X = 
) X = 
) X = 
) X = 
) X = 
) X =
        vAmt >= 3801 and vAmt < 4001
Case
                                                      564
                                                      586
        vAmt >= 4001 \text{ and } vAmt < 4201
Case
        vAmt >= 4201 and vAmt < 4401
                                                      599
Case
                                                      620
        vAmt >= 4401 \text{ and } vAmt < 4601
Case
        vAmt >= 4601 and vAmt < 4801
                                                      635
Case
                                                      655
        vAmt >= 4801 and vAmt
                                 < 5001
Case
                                    5201
                                                      672
        vAmt >= 5001 and vAmt <
Case
                                           ) X =
                                    5401
                                                      686
        vAmt >= 5201 and vAmt <
Case
                                           ) X =
                                                      703
                 5401 and vAmt < 5601
        vAmt >=
Case
        vAmt >=
                 5601 and vAmt < 5801
                                                      721
Case
                                                      738
                 5801 and vAmt < 6001
        vAmt >=
Case
                                           ) X =
                                                      783
        vAmt >= 6001 \text{ and } vAmt < 6501
Case
        vAmt >= 6501 \text{ and } vAmt < 7001
                                            ) X =
                                                      826
Case
                                            ) X =
                                                      873
Case
        vAmt >= 7001 \text{ and } vAmt < 7501
                                                      919
        vAmt >= 7501 and vAmt < 8001
Case
                                                      967
        vAmt >= 8001 and vAmt < 8501
Case
        vAmt >= 8501 and vAmt < 9001
                                                      1015
Case
                                                      1060
        vAmt >= 9001 \text{ and } vAmt < 9501
Case
Case ( vAmt >= 9501 and vAmt < 10001
Case ( VAmt >= 10001 and VAmt <= 1000000 ) X = 1107
End Select
select case true
Case ( vAmt >= 0 and vAmt < 501 ) X = Case ( vAmt >= 501 and vAmt < 751 ) X Case ( vAmt >= 751 and vAmt < 1001 ) X Case ( vAmt >= 1001 and vAmt < 1201 )
                                                      0.005605
                                                      0.005605
                                                      0.005605
                                          ) X =
                                                      0.005605
        vAmt >= 1201 and vAmt < 1401
                                                      0.00817
Case
                                                      0.00817
        vAmt >= 1401 \text{ and } vAmt < 1601
Case
                                            ) X =
        vAmt >= 1601 and vAmt < 1801
                                                      0.00817
Case
                                            ) X =
                                                      0.00817
        vAmt >= 1801 and vAmt < 2001
Case
                                            ) X =
                                                      0.00817
        vAmt >= 2001 and vAmt < 2201
Case
        vAmt >= 2201 and vAmt < 2401
vAmt >= 2401 and vAmt < 2601
                                            ) X =
                                                      0.01083
Case
                                              X =
Case
                                                      0.01083
        vAmt >= 2601 and vAmt < 2801
                                             X =
                                                      0.01083
Case
        vAmt >= 2801 and vAmt < 3001
                                             X =
                                                      0.01083
Case
                                            ) X =
                                                      0.01083
        vAmt >= 3001 and vAmt < 3201
Case
        vAmt >= 3201 and vAmt < 3401
Case
                                                      0.01349
                                             X =
        vAmt >= 3401 and vAmt < 3601
                                                      0.01349
Case
                                             X =
        vAmt >= 3601 and vAmt < 3801
                                                      0.01349
Case
                                            ) X =
) X =
) X =
         vAmt >= 3801 and vAmt < 4001
                                                      0.01349
Case
         vAmt >= 4001 and vAmt < 4201
                                                      0.01349
Case
                                                      0.01349
        vAmt >= 4201 and vAmt < 4401
Case
                                            ) X =
        vAmt >= 4401 and vAmt < 4601
                                                      0.015067
Case
        vAmt >= 4601 and vAmt < 4801
                                            X =
                                                      0.015067
Case
        vAmt >= 4801 \text{ and } vAmt < 5001
                                                      0.015067
Case
                                                      0.015067
        vAmt >= 5001 and vAmt < 5201
                                            ) X =
Case
                                                      0.015067
                                            ) X =
        vAmt >= 5201 and vAmt < 5401
      (vAmt >= 5401 \text{ and } vAmt < 5601)
                                            ) X =
                                                      0.016777
```

Page 3

CA LOOKUP TABLES.TXT

```
function LookupCFScalerTable( VAmt, vCol )
           if vAmt < 0 then
                   LookupCFScalerTable = 0
           else
                   Select Case vCol
                    Case 1
               Select Case True
               End Select
                    Case 2
               Select Case True
                    Case 3
               Select Case True
               Case ( vAmt >= 0 And vAmt < 1 ) x = 0.2 Case ( vAmt >= 1 And vAmt < 2 ) x = 0.18 Case ( vAmt >= 2 And vAmt < 2.75 ) x = 0.16 Case ( vAmt >= 2.75 And vAmt < 3.5 ) x = 0.32
               Case (vAmt >= 3.5)
               End Select
                    Case Else ErrDisp = "Expression Error on CFS lookup - Column
  selected: " & vCol
                    End Select
LookupCFScalerTable = X
           end if
  end function
  function LookupTermTable( vClass, vCol )
           if vClass < 0 then
                    LookupTermTable = 0
T¥
           else
                    Select Case vCol
                    Case 1
                Select Case vClass
                Case 0 X = 0
                Case 1 X = 1
                Case 2 X = 2
                Case 3 X = 3
                Case 4 X = 4
                Case 5 X = 5
                End Select
                    Case 2
                Select Case vClass
                Case 0 X = 150000
                Case 1 X = 150000
Case 2 X = 140000
                Case 3 \times = 140000
                Case 4 \times = 110000
                Case 5 X = 110000
                End Select
                    Case 3
                Select Case vClass
```

CA LOOKUP TABLES.TXT

```
Case 0 \times = 7
Case 1 \times = 7
             Case 2 X = 6
Case 3 X = 6
             Case 4 X = 5
Case 5 X = 5
End Select
                    Case 4
             Select Case vClass
             Case 0 X = 6
             Case 1 X = 6
Case 2 X = 5
Case 3 X = 5
                               5 5 3
             Case 4 X =
             Case 5 X = 3
             End Select
Case 5
             Select Case vClass
             Case 0 X = 110000
             Case 1 X = 110000
              Case 2 X = 100000
             Case 3 X = 100000
Case 4 X = 70000
Case 5 X = 70000
End Select
                    Case 6
             Select Case vClass
Case 0 X = 9
             Case 1 X = 9
Case 2 X = 7
Case 3 X = 7
             Case 4 X = 5
Case 5 X = 5
End Select
                     Case 7
              Select Case vClass
Case 0 X = 150000
              case 1 X = 150000
              Case 2 X = 130000
Case 3 X = 130000
              Case 4 X = 110000
Case 5 X = 110000
End Select
                     Case 8
              Select Case vClass
Case 0 X = 1.4
              Case 1 X = 1.3
              Case 2 X = 1.2
Case 3 X = 1.1
              Case 4 X = 1
Case 5 X = 0.9
End Select
                     Case 9
              Select Case vClass
Case 0 X = 1800
              Case 1 X = 1750
              Case 2 X = 1500
Case 3 X = 1100
              Case 4 X = 0
              Case 5 X = 0
              End Select
                     Case 10
               Select Case vClass
```

CA LOOKUP TABLES.TXT Case $0 \ X = 0.1$ Case 1 X = 0.1Case 2 X = 0.1Case 3 X = 0.05Case $4 \times = 0.05$ Case 5 X = 0.05End Select Case Else ErrDisp = "Expression Error on TERM lookup - Column selected: " & vCol End Select LookupTermTable = Xend if end function function LookupApr(vTerm) if vTerm < 1 then ErrDisp = "TERM cannot be less than 1 - Current TERM is: " & if vTerm > 48 then ErrDisp = "TERM cannot be greater than 48 - Current TERM is:" & vTerm select Case vTerm LookupApr = 0.12Case 1 LookupApr = 0.1596Case 2 LookupApr = 0.1791Case 3 LookupApr = 0.1905Case 4 LookupApr = 0.1978Case 5 LookupApr = 0.2029Case 6 LookupApr = 0.2064Case 7 LookupApr = 0.2091Case 8 Case 9 LookupApr = 0.2111LookupApr = 0.2126Case 10 LookupApr = 0.2137Case 11 LookupApr = 0.2146Case 12 LookupApr = 0.2152Case 13 LookupApr = 0.2157Case 14 LookupApr = 0.216Case 15 LookupApr = 0.2162Case 16 Case 17 LookupApr = 0.2164LookupApr = 0.2164Case 18 LookupApr = 0.2164Case 19 Case 20 LookupApr = 0.2164Case 21 LookupApr = 0.2163Case 22 LookupApr = 0.2161LookupApr = 0.2159Case 23 LookupApr = 0.2157Case 24 LookupApr = 0.2155Case 25 LookupApr = 0.2152Case 26 LookupApr = 0.2115Case 27 LookupApr = 0.2146Case 28 LookupApr = 0.2144Case 29 LookupApr = 0.2141 LookupApr = 0.2137 Case 30 Case 31 LookupApr = 0.2134Case 32 LookupApr = 0.213133 Case LookupApr = 0.2127Case 34 Case 35 LookupApr = 0.2124LookupApr = 0.212Case 36

Page 6

LookupApr = 0.2117

LookupApr = 0.2113

LookupApr = 0.2109

LookupApr = 0.2105LookupApr = 0.2102

LookupApr = 0.2098

LookupApr = 0.2094

Case 37

Case 38

Case 39 Case 40

Case 41

Case 42 Case 43

```
CA LOOKUP TABLES.TXT
                LookupApr = 0.209
    Case 44
    Case 45
                LookupApr = 0.2087
                 LookupApr = 0.2083
    Case 46
                 LookupApr = 0.20779
    Case 47
    Case 48 LookupApr = 0.2075
Case Else ErrDisp = "Error on APR lookup - TERM is: " & vTerm
    End Select
  end function
  ****************
  ' function ErrLookup
  ************************
  function ErrLookup( vErr)
            if vErr < 0 then ErrDisp = "Error on ERR lookup - ERR is: " & vErr
            if vErr >= 99 then
                      ErrLookup = ""
            else
            Select Case vErr
     Case 0 ErrLookup = "DEAL STRUCTURE IS UNACCEPTABLE"
                      hint = "Deal structure is unacceptable. " + hint1 + " You will
  need more down and a lower price. Or maybe a really inexpensive car. " + hint11 +

    hint17 + hint18 + hint20

     Case 1 ErrLookup = "MAXIMUM TERM 48 MONTHS"
hint = "YOU CAN'T GO LONGER THAN 48 MONTHS."

Case 2 ErrLookup = "NEED SHORTER TERM!"
hint = "Need Shorter Term!"
     Case 3 ErrLookup = "PAYMENT MUST BE HIGHER THAN $140!"
     hint= "The payment is too low. This is a car, not a couch."

Case 4 ErrLookup = "TRY 28 MONTH OR SHORTER TERM"

Case 5 ErrLookup = "MINIMUM DISCOUNT 10% OF AMOUNT FINANCED LESS INS"

hint= "The discount has to be at least 10 percent."

Case 6 ErrLookup = "MINIMUM DISCOUNT $300"
D
m
                      hint = "Minimum discount is 300 dollars"
     Case 7 ErrLookup = "AMOUNT FINANCED IN EXCESS OF MAX ALLOWED BY:"
                      hint =
  +hint25+hint21+hint23+hint24+hint8+hint20+hint1+hint2+hint3+ hint4 + hint5 +hint6+
  hint7 + hint9 + hint10 + hint12 + hint13 + hint14 + hint15 + hint16 + hint17 +
  hint18
     Case 8 ErrLookup = "SUGGEST 28 MONTH MAX TERM"
hint= "You can make a better deal if you lower the term to 28
NJ
  months."
     Case 9 ErrLookup = "COX IS MAKING CUSTOMER FACTOR LOWER"
                      hint = "Co-signer is making the customer factor lower. Please check
   to see if the co signer is actually the buyer.

Case 10 ErrLookup = ""
                      hint = hint8+hint20+hint1+hint2+hint3+ hint4 + hint5 +hint6+ hint7 +
   hint9 + hint10 + hint12 + hint13 + hint14 + hint15 + hint16 + hint17 + hint18

Case 11 ErrLookup = "AMOUNT FINANCED IN EXCESS OF MAX ALLOWED BY:"

hint = "" + hint22
     Case 12 ErrLookup = "AMOUNT FINANCED IN EXCESS OF MAX ALLOWED BY:"
hint = "You need to put down " + dollarString(OA,0) + " more."
     End Select
             end if
```

2

End Function

IMPORTS	IMPORTS (Cont)	DOMESTICS	
ACURA	TOYOTA CARS	FORD CARS	
Integra Man Trans3	Camry 92-93 Auto"S"	Turbo/Supercharger 5	
Legend 86-905	Celica/Cressida/MR2 3	Escort 4	
Vigor 3	Corolla 93-94 Auto"S"	Mustang 94 & newer 2	
All Others 1	Supra5	Taurus Sedan 95 & older. 5	
DAEWOO	All Others 1	Taurus Wagon5	
4 Dr + Auto 3	TOYOTA TRUCKS	T-Bird 90-932	
All Others4	Pickups"S"	All Others 3	
HONDA	4-Runner 90-91 V6+4dr+Auto" S "	FORD TRUCKS	
Civic 92-newer 4dr+Auto."\$"	V6+4dr+Adio 5 Vans 89 & older 4	Aerostar 4X4 5	
Civic 92-newer 4dr+Man 1 Other Civic Automatic2	All Others 1	Explorer 4 Dr + Auto 2	
Other Civic Man Trans 3	VOLKSWAGEN	Explorer Other4 F Series Auto + V-81	
CRX/Prelude 3	Jetta/Passat 4 Dr 3	F Series Other2	
Accord 89&Older 3	All Others5	Ranger X Cab	
Accrd 91-94 LX 4dr+Auto"\$"	<u>DOMESTICS</u>	6 cyl + Auto 1	
All Others inc Accrd Wgn. 1	BUICK	Ranger 6 cyl + Auto 2	
HYUNDAI	Quad 4, Tech 4 or 5	All Others3	
Scoupe (All) 5	Regal 92&newer w 3.8L 2	GEO	
Other 97+newer 4	Other 92&newer w 3.8L 3	Prism 4dr Sedan w Auto 1	
All Others3	Century/Skylark/Regal 3	Prism 4dr Sedan w Man2	
<u>ISUZU</u>	All Others 4	Tracker 5	
Pickups 1	CHEVROLET	All Others 3	
Trooper/Rodeo 4dr+Auto. 2	Quad 4, Tech 4 or 2.8L 5	JEEP	
I rooper/Hodeo Utner3	Camaro 5	CJ & Wrangler 6 cyl 1 (2) Other CJ/Wrangler 3	
All Others 5	Corvette 5	Other CJ/Wrangler 3	
4I All3	Corsica/Caprice 4	Cherokee 4dr+4.0L+Auto 3	
MAZDA CARS	All Others 3 CHEVROLET /	Grand Cherokee	
MX-65	GMC TRUCKS	Cherokee 4dr+4.0L+Auto 3 Grand Cherokee	
Miata5	Astro/Safari 2WD 1	Towncar 4	
Protégé 94-older 4	Blazer 4dr+4.3L 95+ 2	All Others 5	
RX75	S10 Blazer 2dr All 5	MERCURY Capri 5	
929 91-older 4	C-Series w Auto 1	Capri 5	
	C-Series Other 2	Tracer4	
MAZDA TRUCKS	K-5 Blazer/Tahoe/Yukon 1	Sable Wagon 5 🔁	
Pickups Auto+Xcab 2	Lumina Van 5	Tracer	
Navajo 4 All Others 3	S10 X-Cab 4.3L+Auto 1	All Others 3	
MITSUBISHI	Suburban 2	OLDSWIDBILE &	
Galant 94 & newer 3	All Others3	Quad 4, Tech 4 5 Silhouette5	
Montero 3	CHRYSLER Cirrus3	All Other 3.8L or V8 4	
Pickups1	Concorde4	All Other 4 or 6 cyl 3	
All Others 5	Town & Country5	PONTIAC	
NISSAN CARS	All Others 5	Quad 4, Tech 4 5	
Altima 93-95 w Auto 2	DODGE/PLYMOUTH CARS	Firebird 5	
Maxima 89&newer Auto 2	Turbos/Convertibles 5	Transport 5	
Sentra 92-older"\$"	Intrepid4	All Others 3	
Sentra 93-newer 1	Neon 4 dr + Auto 3	SATURN	
240SX4	Shadow/Sundance 3	All 3	
300 ZX 5 All Others 3	Spirit/Acclaim	ADDITIONAL POLICIES	
NISSAN TRUCKS	Stratus/Breeze	1. ANY VEHICLE NOT LISTED SHALL BE CONSIDERED CLASS 5.	
Pathfinder	All Others 5	2. DO NOT ADD FOR LOW MILES, OR "SOFT	
4 Dr + Auto 1	DODGE / PLYMOUTH TRUCKS Caravan/Voyager	ADDS."	
Pickups"S"	96-newer 2WD 3	WESTLAKE WILL NOT ADVANCE FOR THE	
Quest 2	Caravan/Voygr Other 5	FOLLOWING KELLEY ADDS: PREMIUM SOUND, PREMIUM WHEELS, ABS, DUAL AIR BAGS,	
All Others 3	94+ Trucks V-8 2	INTEGRATED PHONE, UPGRADED TOPS, BUMPER,	
VEHICLES 10 YRS OLD OR MORE:	Dakota V6/V82	OR PAINT, WIDE/OVERSIZE TIRES, TOW	
Add 100,000 miles to odometer if a 5	All Others 3	PACKAGE, GRILLE GUARD, WINCH, COMMERCIAL TRUCK ADDS & ANY ITEM NOT IN	
digit odometer. 6 digit odometer		WORKING ORDER.	
vehicles must be booked with at least		3. ANY VARIANCE FOUND BETWEEN ACTUAL &	
100.000 miles.	D 27	REPRESENTED VALUE OF THE VEHICLE MAY	

100,000 miles.

REPRESENTED VALUE OF THE VEHICLE MAY RESULT IN DEALER REPURCHASE.

A CLASS TABLE

```
CA EXPRESSIONS WITH COMMENTS.txt
  '<%Template=California%> <%Version=11.01.2001%>
   California Expression Template
   Modification Date: Nov 16, 2000
    Reason: converted from Delphi to VB Script
   Modification Date: Nov 17, 2000
   Reason: Added code for COM, modified for Stand Alone BP
   Modification Date: Nov 22, 2000
   Reason: Added TotalofPayments calculation
    Modification Date: Jan 25, 2001
    Reason: Added insuarnce cap beyond $10,000.00 Modification Date: Feb 13, 2001
    Reason: Repaired wizard re o/a, etc
Modification Date: Feb 26, 2001 - John Sun
Reason: Added error handling - when error occurs, system need to continue and trap
    all the error messages.
    Modification Date: Mar 26, 2001 - Mike Duke
   Reason: Repaired Ins Lookup Table to account for all Carryback possibilities.
    Modification Date : Apr 03, 2001
    Reason: Made minimum Total Income = $1.00
    Modification Date : Apr 09, 2001
Reason: Move Big Mile Hit expressions in proper order for proper recalc when
🌉 opening saved deal
    Modification Date: Apr 30, 2001
    Reason: Fix error in Job Lookup Table
    Modification Date: May 16, 2001
    Reason: Fix error in CF Scaler Lookup
  Modification Date: May 23, 2001
Reason: Allow Class 5 for reserve deals
    Modification Date: Sept 10, 2001
    Reason: Re-sequence MinBk Module
    Modification Date: Nov 1, 2001
    Reason: Complete resorting of expressions
15
        _____Added for Stand Alone
14
  On Error Resume Next
  Set BPMod = CreateObject("BPfunctionsModule.BPFunctions")
TI ----
   '[CONSTANTS]
   'System Error
  DIM SystemError
  SystemError =
  Acqfee=100
  TradeScaler=0.70
  HCBAmtFin = 8000
  HCBScaler = -0.00015
   StupidNum = 8
   StupidTerm = 17
   FTBINC = 1
   FTBPMTRatio = 1
   FTBCB = 1
   FTBPhBill = 2
   FTBDown = 0.20
   FTBSpouse = 2
   FTBResid = 3
```

```
FTBJob = 3
 STHit1 = 0.9

STHit2 = 0.6
  STScaler1 = -0.10
  STScaler2 = -0.20
  SpreadNumScaler = 0.50
  OptimalCB = 5800
  AllowVariance = 1700
  OptimalPoints = 0.13
  CostPerKinkPoint = 2
  KinkAge = 8
  KinkMiles = 120000
KinkCF = 1.70
  KinkMaxTerm = 28
  CFTRWScaler = 0.75
  CFJobScaler = 0.90
CFResidScaler = 0.60
CFHiGoodScaler = 0.90
  CFBKScaler = 1.00
CFHomeScaler = 0.80
CFIncScaler = 0.075
CFDebtScaler = 1.00
  FreeGetNone = 1.75
FreeGetAll = 2.30
\square SBGetNone = 2.75
  SBGetA11 = 3.25
#
  BMHiLimit = 6000
  BMLowLimit = 2000
  MCBHiMiles = 140000
I.
  MCBHiMilesRange = 10000
  MCBMaxIns = 1000
  SDDollarDown = 1500
  SDPercentDown = 0.30
  spscaler = 0.80
  SDEquityMult = 0.50
  BKStrong = 0.5
  BKGood = 0.2
  BKInc = 0.2
  BKSpouse = 0.05
  BKHiGood = 0.2
  CRStart = 0.15
CRCountAll = 0.20
  DATerm = 30
  DAScaler = 0.90
  MinRent = 250
  SpreadReq = 0.12
  TooSmallPmt = 140
  MBKDown = 1
   MBKInc = 3
   MBKHome = 1
   MBKSpouse = 1
```

```
MBKMinPoints = 6
  MinDiscStrongBK = 0.11
  MinDiscRegularBK = 0.15
  MBKGood = 3
  MBKHiGood = 3
  BSSmallHD = -0.20
  BSBK = -0.20
  BadScalerBase = 1.05
  BSHiDerog = 0.20
  MinDiscHiDerog = 0.12
  MinDiscount = 0.10
  GSJustForPlaying = 1.50
  GSHiGood = 0.25
  GS2ManyAcct = -0.25
  GSGood2xDerog = 0.25
  GSDerog2xGood = -0.25
  GSDerog5xGood = -0.25
  GSNoDerog = 0.20
  GSFTB = 0.65
  GSGoodMoreThanDerog = 0.10
BigMilesStart = 185000
BigMilesRange_1 = 50000
BigMilesRange_2 = 50000
BigMilesRange_3 = 50000
BigMilesRange_3 = 50000
HitBigMiles_1 = 0.15
HitBigMiles_2 = 0.15
HitBigMiles_3 = 0.15
1
MaxWarrCB = 250
  CurrYear = 2000
"[FIX YEAR OF CAR IN CASE USER INPUTS 2 DIGIT MODEL YEAR]
if (vyear < 5) then
     CarYear = vYear + 2000
     else if (vYear < 100) then
T.
       CarYear = vYear + 1900
else
         CarYear = vYear
     end if
  end if
   '[INITIALIZE HINTS]
  hint =""
  hint1=""
  hint2=""
  hint3=""
  hint4=""
   hint5=""
  hint6=""
   hint7=""
   hint8=""
   hint9=""
   hint10=""
   hint11=""
   hint12=""
   hint13=""
   hint14=""
   hint15=""
   hint16=""
   hint17=""
```

```
hint18=""
  hint19=""
  hint20=""
  hint21=""
  hint22=""
  hint23=""
  hint24=""
  hint25=""
  '[DEAL STRUCTURE CALCULATION AREA]
  '[CALCULATE TAX AMOUNT AND SUBTOTAL]
Tax = (TaxRate/100) * (Price + Smog + Doc)
  SubTot = cdbl(Price + Doc + Smog + SmogCert + Tax + LicFee + Warr)
TotalDown = Down + TradeAllowance - TradePayoff
  TotalLessIns = SubTot - TotalDown
   '[CALCULATE INSURANCE AMOUNT IF NEEDED]
  if (InsFlag = 1) then
     if (TotalLessIns <= 10000) then
        ins = LookupIns(TotalLessIns, 2 )
        Ins = 0.1088*TotalLessIns+95
     end if
  else
     Ins = 0.00
  end if
'[THIS IS THE AMOUNT FINANCED]
CB = (SubTot - TotalDown) + Ins
" '[LOOKUP INTEREST RATE]
Interest = LookupApr( Term )
APR = Interest
[CALCULATE PAYMENT]
  PaymentA = BPMod.bp_AddOnPMT(CB, Term, 0.12, DaysToPay)
   Payment = BPMod.bp_Trunc( PaymentA, 2 )
  '["ADDON" IS THE TOTAL DOLLAR AMOUNT OF INTEREST]
   IntCost = ( Payment * Term ) - CB
Addon = (Payment * Term) - CB
   TotalofPayments= Payment*Term
   FrGross = Price - Cost
   DealerGross=PRICE-COST-RESERVE+WARR-WARCOST-AcqFee
    '[END DEAL STRUCTURE CALCULATION AREA]
   '[MAX AMOUNT FINANCED CALCULATION AREA = "MAXCB"]
'[CALCULATE HIT FOR VERY HIGH MILES = "BIGMILEHIT"]
   LotsOfMiles_1 = BigMilesStart - ( vClass * 10000 )
   LotsOfMiles_2 = LotsOfMiles_1 + BigMilesRange_1
   LotsofMiles_3 = LotsOfMiles_2 + BigMilesRange_2
   HitRate_1 = ( HitBigMiles_1 + ( vClass / 100 ) ) / BigMilesRange_1
HitRate_2 = ( HitBigMiles_2 + ( vClass / 100 ) ) / BigMilesRange_2
HitRate_3 = ( HitBigMiles_3 + ( vClass / 100 ) ) / BigMilesRange_3
   BigMileDelta_2 = BPMod.bp_MIN( Miles - LotsOfMiles_2, BigMilesRange_2 ) * HitRate_2
   BigMileDelta_3 = BPMod.bp_MIN( Miles - LotsOfMiles_3, BigMilesRange_3 ) * HitRate_3 BigMileHit_1 = BPMod.bp_MIN( Miles - LotsOfMiles_1, BigMilesRange_1 ) * HitRate_1 BigMileHit_2 = BPMod.bp_IFG( Miles, LotsOfMiles_2, BigMileHit_1 + BigMileDelta_2,
                                                        Page 4
```

```
CA EXPRESSIONS WITH COMMENTS.txt
  BigMileHit_1 )
                     = BPMod.bp_IFG( miles, LotsOfmiles_3, BigMileHit_2 + BigMileDelta_3,
  BigMileHit_3
  BigMileHit_2 )
   BigMileHit = BPMod.bp_IFG( Miles, LotsOfMiles_1, BigMileHit_3, 0 )
   '[CALCULATE REGULAR HI MILE HIT = "HIMILEHIT"]
   Overmiles = MCBHiMiles - MCBHiMilesRange
  maxHiMileHit = LookupTermTable( vClass, 10 )
   MCBHitRate = MaxHiMileHit / MCBHiMilesRange
  HiMileHitExp1 = BPMod.bp_MIN( ( Miles - OverMiles ), MCBHiMilesRange ) * MCBHitRate
   HiMileHit = BPMod.bp_IFG( Miles, MCBHiMiles - MCBHiMilesRange, HiMileHitExp1, 0 )
   '[GET MAXCB]
   BMRange = BMHiLimit - BMLowLimit
  CarclassAdv = LookupTermTable(vClass, 8) * Book
MaxBookAdv = LookupTermTable(vClass, 9) + Book
WarrAllowance = BPMod.bp_MIN(MaxWarrCB, Warr)
   PossibleAdv = CarClassAdv - HiMileHit + WarrAllowance + BPMod.bp_MIN (Ins.
   OKAdv = BPMod.bp_MIN( PossibleAdv, ( MaxBookAdv + Ins + WarrAllowance ) )
BigMileSmackScaler = BPMod.bp_MAX( BPMod.bp_MIN( ( OKAdv - Ins - BMLowLimit ) /
🕌 BMRange, 1 ),0 )
BigMileSmack = (OKAdv - Ins ) * BigMileHit * BigMileSmackScaler

MaxAltCB = 1500 + Ins - 100 * (CurrYear - BPMod.bp_MIN(CurrYear, CarYear) - 10)

MaxCB = BPMod.bp_MAX((OKAdv - BigMileSmack), MaxAltCB)
[END MAX AMOUNT FINANCED CALCULATION AREA]
T
'[ASSORTED ONE-LINE VARIABLE CALCULATIONS FOR FUTURE USE]
RealDown = Down + (TradeAllowance - TradePayoff)*TradeScaler
CarAge = CurrYear - CarYear
EquityTest = TotalLessIns / ( MaxCB - Ins )
[ '[CALCULATE GOOD/DEROG INCLUDING SPOUSE]
TotalGood = BPMod.bp_IFB( Spouse, ( Good + SpGood ) / 2, Good )

TotalDerog = BPMod.bp_IFB( Spouse, ( Derog + SpDerog ) / 2, Derog )

RealHiGood = BPMod.bp_IFB( Spouse, BPMod.bp_MAX( HiGood, SpHiGood ), HiGood )

RealHiDerog = BPMod.bp_IFB( Spouse, BPMod.bp_MAX( HiDerog, SpHiDerog ), HiDerog )
    '[CALCULATE INCOME INCLUDING SPOUSE = "REALINC"]
   TotalInc=BPMod.bp_MAX(BPMod.bp_IFB(Spouse, Inc+SpInc-Support, Inc-Support), 1)
   RealIncCond1 = BPMod.bp_IFG( TotalGood, 1.5, 1, 0 )
RealIncCond2 = BPMod.bp_IFL( TotalDerog, TotalGood, 1,0 )
   RealIncCond3 = BPMod.bp_IFGE( YrsTRW, 2, 1,0 )
RealIncCond4 = BPMod.bp_IFLE( TotalDerog, 2, 1, 0 )
RealIncCond5 = BPMod.bp_IFE( Repos, 0, 1,0 )
RealIncCond = RealIncCond1 * RealIncCond2 * RealIncCond3 * RealIncCond4 *
    RealIncCond5
   MinInc = BPMod.bp_MAX( Inc-Support, SpInc-Support )
IncHit = BPMod.bp_MAX( 1 - ( TotalInc / 10000 ), 0.75 )
RealIncExp2 = BPMod.bp_MAX( BPMod.bp_MAX( TotalInc * IncHit, TotalInc - 500 ),
    RealIncExp1 = BPMod.bp_IFB( RealIncCond, TotalInc, RealIncExp2 )
    RealIncExp = BPMod.bp_IFB(_Spouse, RealIncExp1, TotalInc )
    RealInc = BPMod.bp_MAX(RealIncExp, 1)
    '[CALCULATE COXSCALER TO BE USED IF COX=YES]
    GoodCreditExp = BPMod.bp_IFL( CoxGood, Good, - 2,0 )
    GoodCreditPoints = BPMod.bp_IFB( BPMod.bp_IFG( CoxGood,Good,1,0 ) * BPMod.bp_IFGE(
                                                            Page 5
```

```
CA EXPRESSIONS WITH COMMENTS.txt
    CoxGood, 4, 1, 0), 2, GoodCreditExp)
    DerogExp = BPMod.bp_IFB( BPMod.bp_IFG( CoxDerog, 3, 1, 0 ) + BPMod.bp_IFG(
    CoxDerog, CoxGood, 1,0), -1,0)
    DerogCreditPoints = BPMod.bp_IFB( BPMod.bp_IFLE( CoxDerog,CoxGood * 0.5, 1,0 ) *
BPMod.bp_IFLE( CoxDerog,3,1,0 ) * BPMod.bp_IFGE( CoxGood,1,1,0 ), 2, DerogExp )
RepoPoints = BPMod.bp_IFE( CoxRepo,0,1, - 10 * CoxRepo )
IncAccounts = BPMod.bp_MAX( (CoxGood + CoxDerog), 1 )
IncDivAcct = BPMod.bp_IFE( (CoxGood + CoxDerog), 0, 0, (CoxInc / IncAccounts) )
IncomePointsElseExp = BPMod.bp_IFB( BPMod.bp_IFGE( IncDivAcct,200,1,0 ) +
BPMod.bp_IFGE( CoxInc,4000,1,0 ), 3, ( ( IncDivAcct - 100 ) / 100 ) * 3 )
IncomePoints = BPMod.bp_IFLE( IncDivAcct.100.0, IncomePointsElseExp )
    IncomePoints = BPMod.bp_IFLE( IncDivAcct, 100, 0, IncomePointsElseExp )
    CoxOwnHomePoints = BPMod.bp_IFB(CoxHome, 3, 0)
    CoxParentOfBuyerPoint = BPMod.bp_IFB( CoxParent, 5, - 1)
BuyerLowOnBureauPointElseExp2 = BPMod.bp_IFLE( YrsTRW, 3, 0, - 1)
BuyerLowOnBureauPointElseExp = BPMod.bp_IFLE( YrsTRW, 2, 1,
    BuyerLowOnBureauPointElseExp2 )
    BuyerLowOnBureauPoint = BPMod.bp_IFLE( YrsTRW,1,3,BuyerLowOnBureauPointElseExp )
    CoxPoints = GoodCreditPoints + DerogCreditPoints + RepoPoints + IncomePoints +
    CoxOwnHomePoints + CoxParentOfBuyerPoint + BuyerLowOnBureauPoint
    GoodCoxExp1 = BPMod.bp_IFOR2( BPMod.bp_IFAND2( BPMod.bp_IFGE( CoxInc,1500,1,0 ),
    BPMod.bp_IFGE( IncDivAcct, 300, 1, 0), BPMod.bp_IFGE( CoxInc, 2000, 1, 0), 1, 0
GoodCoxExp2 = BPMod.bp_IFE( CoxRepo, 0, 1,0 )

GoodCoxExp3 = BPMod.bp_IFL( CoxDerog, 3, 1, 0 )

GoodCoxExp4 = BPMod.bp_IFOR2( BPMod.bp_IFAND2( BPMod.bp_IFGE( CoxGood,5,1,0 ),

BPMod.bp_IFGE( CoxGood,5 * CoxDerog, 1,0 ),1,0 ),BPMod.bp_IFAND2( BPMod.bp_IFB(
CoxHome,1,0 ), BPMod.bp_IFLE( CoxDerog, 1, 1, 0 ),1,0 ), 1,0 )

GoodCoxCond = GoodCoxExp1 * GoodCoxExp2 * GoodCoxExp3 * GoodCoxExp4

GoodCoxInc = BPMod.bp_IFE( GoodCoxCond, BPMod.bp_MIN( CoxInc = 1500 ) / 1000
    GoodCoxInc = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_MIN( (CoxInc - 1500 ) / 1000, 1
DerogNotZero = BPMod.bp_MAX( CoxDerog, 1 )
GoodCoxCredit = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_IFB( CoxDerog, ( CoxGood / DerogNotZero ) * 0.2, CoxGood * 0.2 ), 0 )
    GoodCoxScaler = BPMod.bp_IFB( GoodCoxCond, BPMod.bp_MAX( GoodCoxCredit * GoodCoxInc,
1 ) * GoodCoxInc, 0 )

BadBuyer = BPMod.bp_IFB( BPMod.bp_IFG( YrsTRW + Derog, 10, 1, 0 ) * BPMod.bp_IFG(
    CoxPoints, 0, 1, 0), 1, 0)
    BadBuyerScaler = BPMod.bp_IFB( BadBuyer, BPMod.bp_MAX( 0,1 - 0.1 * ( YrsTrw + Derog
     - 10 )
CoxScaler = BadBuyerScaler * ( CoxPoints + GoodCoxScaler * CoxPoints )
     '[CALCULATE VARIABLE "RESIDTOT" FOR CUST FACT CALC LATER]
    Resid8YearBase = BPMod.bp_IFGE( Resid, 8.1, BPMod.bp_MIN( Resid - 8, 4 ) * 0.00, 0 )
Resid5YearBase = BPMod.bp_IFGE( Resid, 5.1, BPMod.bp_MIN( Resid - 5, 3 ) * 1.44, 0 )
Resid1YearBase = BPMod.bp_IFGE( Resid, 1.1, BPMod.bp_MIN( Resid - 1, 4 ) * 1.27, 0 )
Resid1YearBase = BPMod.bp_IFGE( Resid, 0.0, BPMod.bp_MIN( Resid, 1 ) * 0.776, 0 )
    ResidTot = Resid8YearBase + Resid5YearBase + Resid1YearBase + Resid0YearBase - 0.176
     '[CALCULATE SCALER FOR GOOD/DEROG CREDIT ITEMS = "GOODSCALER", "BADSCALER"]
    GoodScalerBase = GSJustForPlaying
    GoodScaler9 = BPMod.bp_IFE( TotalDerog,0, GoodScalerBase + GSNoDerog, GoodScalerBase
    GoodScaler8 = BPMod.bp_IFG( TotalGood, TotalDerog, GoodScaler9 + GSGoodMoreThanDerog,
    GoodScaler9 )
    GoodScaler7 = BPMod.bp_IFB( BPMod.bp_IFG( RealHiGood,RealHiDerog * 10,1,0 ) * BPMod.bp_IFG( RealHiDerog,100,1,0 ) * BPMod.bp_IFL( RealHiDerog,3000,1,0
    ),GoodScaler8 + GSHiGood,GoodScaler8 )
    GoodScaler6 = BPMod.bp_IFB( BPMod.bp_IFG( TotalGood,TotalDerog * 2,1,0 ) * BPMod.bp_IFGE( TotalDerog,1,1,0 ),GoodScaler7 + GSGood2xDerog, GoodScaler7 ) GoodScaler5 = BPMod.bp_IFGE( TotalDerog,TotalGood * 2,GoodScaler6 +
    GSDerog2xGood,GoodScaler6 )
                                                                        Page 6
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   GoodScaler4 = BPMod.bp_IFGE( TotalDerog, TotalGood * 5, GoodScaler5 +
   GSDerog5xGood,GoodScaler5
   GoodScaler3 = BPMod.bp_IFB( BPMod.bp_IFE( YrsTRW,0,1,0 ) * BPMod.bp_IFNE(
   vClass,5,1,0 ),GoodScaler4 + GSFTB,GoodScaler4 )
GoodScaler2 = BPMod.bp_IFB( BPMod.bp_IFLE( YrsTrw,2,1,0 ) * BPMod.bp_IFGE( TotalGood
   + TotalDerog,6,1,0 ),GoodScaler3 + GS2ManyAcct,GoodScaler3 )
GoodScaler1 = BPMod.bp_IFL( RealHiDerog,1000,GoodScaler2 + ( 1000 - RealHiDerog ) *
   0.0005, GoodScaler2
   GoodScaler0 = BPMod.bp_IFL( YrsTRW,1,GoodScaler1 + ( 1 - YrsTRW ) * TotalGood * -
   0.5, GoodScaler1)
   GoodScalerX = BPMod.bp_MIN ( GoodScaler0, 1.5 )
   GoodScaler = BPMod.bp_MAX ( GoodScalerx, 0.25 )
   BadScaler5 = BPMod.bp_IFB( BPMod.bp_IFGE( RealHiDerog, 5000, 1, 0 ) * BPMod.bp_IFE(
   BK,0,1,0), BadScalerBase + BSHiDerog, BadScalerBase)
BadScaler4 = BPMod.bp_IFB(BK, BadScaler5 + BSBK, BadScaler5)
   BadScaler3 = BPMod.bp_IFLE( RealHiDerog, 500, BadScaler4 + BSSmallHD, BadScaler4 )
BadScaler2 = BPMod.bp_IFB( BPMod.bp_IFB( BK,1,0 ) * BPMod.bp_IFL( YrsTRW,5,1,0 ),
   BadScaler3 + (5 - YrsTRW)*0.3, BadScaler3)
   BadScaler1 = BPMod.bp_MAX( BadScaler2, 1.00 )
   BadScaler = BPMod.bp_MIN( BadScaler1, 1.5 )
| CALCULATE MIN % DISCOUNT BASED BK=YES AND OTHER FACTORS = "MINBK" ALSO TO BE USED
IN MINIMUM % DISCOUNT AREA BELOW]
BKPoints6 = BPMod.bp_IFGE( TotalDown,3000,MBKDown,0 )
BKPoints5 = BPMod.bp_IFGE( RealInc,3000,BKPoints6 + MBKInc,BKPoints6 )
BKPoints4 = BPMod.bp_IFGE( TotalGood,8,BKPoints5 + MBKGood,BKPoints5 )
BKPoints3 = BPMod.bp_IFB( Home, BKPoints4 + MBKHome, BKPoints4 )
BKPoints2 = BPMod.bp_IFB( Spouse, BKPoints3 + MBKSpouse, BKPoints3 )

BKPoints1 = BPMod.bp_IFGE( RealHiGood, 10000, BKPoints2 + MBKHiGood, BKPoints2 )

MinBKExp2 = BPMod.bp_IFGE( BKPoints1, MBKMinPoints, MinDiscStrongBK,
  MinDiscRegularBK ]
MinBKCon = BPMod.bp_IFB( BK,1,0 ) * BPMod.bp_IFGE( RealInc,2400,1,0 ) *
BPMod.bp_IFGE( TotalGood, 5, 1, 0) * BPMod.bp_IFGE( YrsTRW, 8, 1, 0) * BPMod.bp_IFNE(
  vClass, 5, 1, 0)
  MinBKExp1 = BPMod.bp_IFB( MinBKCon, MinBKExp2, MinDiscRegularBK )
MinBK = BPMod.bp_IFB( BK,MinBKExp1,MinDiscount )
  '[CALCULATE "BKBONUS" TO BE ADDED TO CUST FACT AS PART OF "FINETUNE"]
BKBONUSCOND = BPMOd.bp_IFNE( vClass, 5, 1, 0 ) * BPMod.bp_IFGE( TotalDown, Price *
   0.20,1,0) * BPMod.bp_IFGE( TotalDown,1500,1,0) * BPMod.bp_IFGE( YrsTRw,5,1,0) *
   BPMod.bp_IFG( TotalGood, 5, 1, 0 )
   BKBonusExp6 = BPMod.bp_IFGE( RealHiGood, 10000, BKHiGood, 0 )
   BKBonusExp5 = BPMod.bp_IFB( Spouse, BKBonusExp6 + BKSpouse, BKBonusExp6 )
BKBonusExp4 = BPMod.bp_IFGE( BPMod.bp_IFB( Spouse, Inc + Spinc, Inc ),3000, BKBonusExp5
   + BKInc, BKBonusExp5 )
   BKBonusExp3 = BPMod.bp_IFGE(TotalGood, 8, BKBonusExp4 + BKGood, BKBonusExp4)
   BKBonusExp2 = BPMod.bp_IFE( MinBK, MinDiscStrongBK, BKBonusExp3 + BKStrong,
   BKBonusExp3 )
   BKBonusExp1 = BPMod.bp_IFB( BKBonusCond, BKBonusExp2, 0 )
   BKBonus = BPMod.bp_MIN( BPMod.bp_IFB( BK, BKBonusExpl, 0 ), 1 )
   '[DEBT MODEL #1 CALCULATE "COUNTRENT" AND "CRAPRATIO"]
   OKCrap = BPMod.bp_IFB(Spouse, 0.18, 0.13)
   Crap = DEBT / RealInc
   RentMult = ( Crap - CRStart ) / ( CRCountAll - CRStart )
   CountRentExp2 = RentMult * Rent
   CountRentExp1 = BPMod.bp_IFGE( Crap,CRCountAll,Rent,CountRentExp2 )
  CountRent = BPMod.bp_IFG( Crap,CRStart,CountRentExp1,0 )
CrapRatio = BPMod.bp_MAX( Crap - OKCrap, 0 )
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'[CALCULATE SIGNIFICANT DOWN = "SIGDOWN"]

Equity = BPMod.bp_MAX(( MaxCB - CB - WarrAllowance ), 0 )

DollarDownMult = BPMod.bp_MIN( RealDown, SDDollarDown ) / SDDollarDown

PercentDownMult = BPMod.bp_MIN( RealDown / Price, SDPercentDown ) / SDPercentDown

PercentDownMult = BPMod.bp_MIN( RealDown / Price, SDPercentDown ) / SDPercentDown
  SigMult = BPMod.bp_MAX( BPMod.bp_MAX( DollarDownMult, PercentDownMult ),
   SDEquityMult )
  SigDown = BPMod.bp_MIN( SigMult * Equity * SDScaler, 0.5 * RealDown )
   '[CALCULATE "DEBTADJUSTMENT"]
  DAPmt = BPMod.bp_MAX( BPMod.bp_PMT(Interest, DATerm, CB, DaysToPay ), TooSmallPmt )
DebtAdjustment = BPMod.bp_IFNE( Term, DATerm, ( DAPmt - Payment ) * DAScaler, 0 )
   '[CALCULATE TOTAL DEBT = "TOTDEBT"]
  MinDebt = BPMod.bp_MAX( BPMod.bp_MAX( CountRent, MinRent ), RealInc * 0.1 ) + Debt InsDebt = BPMod.bp_IFB( BPMod.bp_IFE( Ins,0,1,0 ) * BPMod.bp_IFG( CB,2500,1,0 ), CB
   WarDebtExp = BPMod.bp_PMT( Interest, Term, WarrAllowance, DaysToPay )
   warDebt = BPMod.bp_IFG( WarrAllowance,0, WarDebtExp,0 )
   TotDebt = MinDebt + Payment + InsDebt - WarDebt + DebtAdjustment
[CALCULATE VARIABLE TIME ON JOB WHETHER MARRIED OR NOT = "REALJOB"]
JobInc = Job * (Inc - Support)

SpJobInc = SpJob * SpInc

RealJobExp2 = (JobInc + SpJobInc) / TotalInc
RealJobExp1 = BPMod.bp_IFLE( TotDebt / ( Inc - Support ),0.40, BPMod.bp_MAX(Job,
TRealJobExp2), RealJobExp2)
RealJob = BPMod.bp_IFB( Spouse, RealJobExp1, Job )
■ '[CALCULATE "JOBTOT" TO BE USED IN CUST FACT DETERMINATION]
JobPoints1 = LookupJobTable(RealJob, 2)

ExtraTime = RealJob - LookupJobTable (RealJob, 1)
   JobPoints2 = LookupJobTable( RealJob, 3 ) * ExtraTime
   JobTot = JobPoints1 + JobPoints2
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    '[CALCULATE BONUS POINTS FOR FTB OR SHORT BUREAU TO BE USED AS PART OF FINETUNE =
   "SMALLFTBBONUS," "FTBBONUS"]
   FTBPointsCond1 = BPMod.bp_IFLE( YrsTRW,1.1,1,0 ) * BPMod.bp_IFNE( vClass,5,1,0 ) * BPMod.bp_IFE( Repos,0,1,0 ) * BPMod.bp_IFL( RealHiDerog,3000,1,0 ) FTBPoints7 = BPMod.bp_IFGE( RealInc,1500,FTBInc,0 ) FTBPoints6 = BPMod.bp_IFLE( Payment / RealInc,0.20,FTBPoints7 +
    FTBPmtRatio, FTBPoints\overline{7})
   FTBPoints5 = BPMod.bp_IFLE( CB - Ins - SigDown,5500,FTBPoints6 + FTBCB,FTBPoints6 )
   FTBPoints4 = BPMod.bp_IFB( PhBill,FTBPoints5 + FTBPhBill,FTBPoints5 )
FTBPoints3 = BPMod.bp_IFGE( (TotalDown / Price), 0.25, FTBPoints4 + 1 + ( TotalDown
   / Price - 0.25 ) / FTBDown, FTBPoints4 )
FTBPoints2 = BPMod.bp_IFB( Spouse, FTBPoints3 + FTBSpouse, FTBPoints3 )
FTBPoints1 = BPMod.bp_IFGE( Resid, 2.1, FTBPoints2 + FTBResid, FTBPoints2 )
    FTBPointsExp = BPMod.bp_IFGE( RealJob, 2.1, FTBPoints1 + FTBJob, FTBPoints1)
    FTBPoints = BPMod.bp_IFB( FTBPointsCond1, FTBPointsExp, 0 )
SmallFTBBonus = (1.1 - YrsTRW) * 0.25 * BPMod.bp_MIN (1, FTBPoints / 6)
FTBBonus = BPMod.bp_IFG( FTBPoints,6, (1.1 - YrsTRW) * 0.50 * BPMod.bp_MIN(1, (
    FTBPoints -6 ) /3 ), 0 )
    '[BEGIN SPECIAL POINTS MODEL; YIELDS "FTSPECIALPOINTS"]
    '[HIT FOR LOW JOB AND LOW RESID AT SAME TIME = "SHORTTIMEHIT"]
    ShortTimeHitCond1 = BPMod.bp_IFLE( Job,STHit1,1,0 ) * BPMod.bp_IFLE(
    Resid, STHit1, 1,0) * BPMod.bp_IFB( Spouse, BPMod.bp_IFLE( SpJob, STHit1, 1,0), 1)
                                                               Page 8
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ShortTimeHitCond2 = BPMod.bp_IFLE( Job,STHit2,1,0 ) * BPMod.bp_IFLE(
Resid,STHit2,1,0 ) * BPMod.bp_IFB( Spouse, BPMod.bp_IFLE( SpJob,STHit2,1,0 ), 1 )
ShortTimeHit1 = ( (STHit1 * STHit1 ) - ( Job * Resid ) ) * STScaler1

ShortTimeHit5val = BPMod.bp_IFB( ShortTimeHit5val = BPMod.bp_IFLE( ShortTimeHit5val = BPMod
   ShortTimeHitExp1 = BPMod.bp_IFB( ShortTimeHitCond2, ShortTimeHit1 + ( ( STHit2 * STHit2 ) - ( Job * Resid ) ) * STScaler2, ShortTimeHit1 ) ShortTimeHit = BPMod.bp_IFB( ShortTimeHitCond1, ShortTimeHitExp1, 0 )
    '[HIT FOR HI AMT FINANCED UNLESS OVERRIDE=Y; = "HICBHIT"]
    HiCBNumber = BPMod.bp_IFG( (CB - Ins - SigDown ), HCBAmtFin, (CB - Ins - SigDown -
    HCBAmtFin ) * HCBScaler, 0 )
   HCO1 = BPMod.bp_IFE( ShortTimeHit,0, 1, 0 )
HCO2 = BPMod.bp_IFE( Repos,0, HCO1 + 1, HCO1 )
HCO3 = BPMod.bp_IFAND2( BPMod.bp_IFE( Repos,1,1,0 ), BPMod.bp_IFB( BK, 1,0 ), HCO2 +
    1, HCO2)
    HCP1 = BPMod.bp_IFGE( TotalGood, TotalDerog, 1, 0 )
HCP2 = BPMod.bp_IFGE( RealHiGood, RealHiDerog, HCP1 + 1, HCP1 )
    HCP3 = BPMod.bp_IFGE( RealHiGood, 0.50 * ( TotalLessIns - SigDown ), HCP2 + 1, HCP2
    HCPExp = BPMod.bp_IFGE(HCP3, 2, 0, 1)
    HiCBOverideExp = BPMod.bp_IFGE( HCO3, 2, HCPExp, 1)
    HiCBOveride = BPMod.bp_IFL( HiCBNumber, 0, HiCBOverideExp,1)
    HiCBHit = HiCBNumber * HiCBOveride
[EXTRA POINTS FOR OPTIMAL CB = "OPTIMALCBCREDIT"]
Variance = ABS( TotalLessIns - OptimalCB )
OptimalCBCredit = BPMod.bp_IFL( Variance, AllowVariance, OptimalCBExp1, 0 )
FTSpecialPoints = OptimalCBCredit + HiCBHit + ShortTimeHit
    '[END SPECIAL POINTS MODEL]
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**
'[FINETUNE MODEL--TO BE ADDED TO CUST FACTOR = "FINETUNE"]
FTBonus = FTBBonus + SmallFTBBonus + BKBonus
FTPhBill = BPMod.bp_IFAND2( BPMod.bp_IFB( PhBill, 1, 0 ),BPMod.bp_IFL( TotalDerog +
TotalGood, 4, 1, 0), 0.12, 0)

FTDerogHit = BPMod.bp_IFG( TotalDerog, 4, - 0.05 - 0.01 * ( TotalDerog - 5 ), 0 )
     FTSigDown = SigDown * .0001 + BPMod.bp_IFG( SigDown, 2000, ( SigDown - 2000 ) *
      .0001, 0)
     FTEquity = 0.75 - EquityTest + BPMod.bp_MAX( 0.6 - EquityTest, 0 )
     FTBuyIFBreathing = BPMod.bp_MAX( FTSigDown, FTEquity ) * BPMod.bp_IFOR2( BPMod.bp_IFL( TotalLessIns, ( MaxCB - Ins ) * 0.75, 1, 0 ), BPMod.bp_IFGE( SigDown, 1000, 1, 0 ), 1, 0 )
     FTSmallHiDerog = BPMod.bp_IFB( BPMod.bp_IFE( TotalGood, 0, 1, 0 ) * BPMod.bp_IFLE( RealHiDerog, 500, 1, 0 ) * BPMod.bp_IFG( YrsTRW, 1, 1, 0 ), 0.30, 0 ) FTBHD = BPMod.bp_IFB( BPMod.bp_IFGE( RealHiDerog, 2700, 1, 0 ) * BPMod.bp_IFB( BK, 0, 1 ) * BPMod.bp_IFE ( Repos, 0, 1, 0 ), ( RealHiDerog / 8000 ) * - 0.60, 0 ) FTBIGHTDEROG = BPMod.bp_MAX( - 0.50,FTBHD )
      InsCantFindErr = BPMod.bp_IFB( InsFlag, LookupIns(_TotalLessIns,3 ), 0 )
      FineTune = FTSpecialPoints + FTBigHiDerog + FTSmallHiDerog + FTBuyIFBreathing +
     FTDerogHit + FTPhBill + FTBonus + InsCantFindErr
      '[BEGIN FINAL CUSTOMER FACTOR CALCULATION -- ADD UP "F" VARIABLES]
     TRWPart = BPMod.bp_IFL ( YrsTRW, 2, BPMod.bp_MIN( YrsTRW * 0.5, 0.9 ), BPMod.bp_MIN(
      0.7 + YrsTRW * 0.1, 1)
      FTRW = TRWPart * CFTRWScaler
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 JobPart = JobTot / 10
 FJob = JobPart * CFJobScaler
 ResidPart = ResidTot / 10
 FResid = ResidPart * CFResidScaler
 GoodPart = BPMod.bp_IFL ( TotalGood, 2, TotalGood * 0.5, BPMod.bp_MIN( 0.5 +
 TotalGood * 0.1, 1 ) )
  FGood = GoodPart * GoodScaler
  HiGoodPart = BPMod.bp_IFL ( RealHiGood, 20000, 0.5 * RealHiGood / 20000, 0.5 )
  FHiGood = HiGoodPart * CFHiGoodScaler
  DerogPart = BPMod.bp_IFL ( TotalDerog, 4, TotalDerog * - 0.25, - 0.5 - TotalDerog *
  0.1)
  BKDerog = BPMod.bp_IFB ( BK, 0.7, 1 )
  FDerog = BPMod.bp_MAX( DerogPart * BadScaler, - 1.05 ) * BKDerog
  CFPhBillScaler = BPMod.bp_IFL( TotalLessIns, 4000, 0.8, 0.65 ) * 20 / Term PhBillPart = BPMod.bp_IFB ( PhBill, BPMod.bp_IFL ( EquityTest, 0.90, 0.33, 0.33 *
  0.80), 0)
🚅 FPhBill = PhBillPart * CFPhBillScaler
RepoPart = Repos * - 0.25
CFRepoScaler = BPMod.bp_IFG( RealHiDerog, 1000, 2, BPMod.bp_MAX( 1, RealHiDerog *
  .002 ) )
FRepo = RepoPart * CFRepoScaler
  BKPart = BPMod.bp_IFB(BK, -0.5, 0)
📆 FBK = BKPart * CFBKScaler
  HomePart = BPMod.bp_IFB ( Home, 2/3, 0 )
  HomePartScaler= 0.4 + 0.4*(BPMod.bp_IFG (RealHiGood, 30000, RealHiGood-30000,
FHome = HomePart * BPMod.bp_MIN( CFHomeScaler, HomePartScaler)
  IncPart = BPMod.bp_IFL ( RealInc, 3000, RealInc / 2000, BPMod.bp_MIN( RealInc, 12000
  ) / 1800 )
  FInc = IncPart * CFIncScaler
  DebtPart = BPMod.bp_IFGE ( TotDebt / Realinc, 0.55, - 0.1, BPMod.bp_MIN( 0.7 -
TotDebt / Realinc, 0.5 ) )
  TotDebt / RealInc, 0.5 ) )
FDebt = DebtPart * CFDebtScaler
  CFSpouseScaler = BPMod.bp_IFLE( YrsTRW, 1, 0.5, 0.35 )
  worthlessSpouse = BPMod.bp_IFAND2( BPMod.bp_IFLE( SpJob, 0, 1, 0 ),BPMod.bp_IFLE(
  SpGood, 0, 1, 0), 0, 1)
  SpousePart = BPMod.bp_IFB ( Spouse, 0.5, 0 ) * WorthlessSpouse
  FSpouse = SpousePart * CFSpouseScaler
  CoxPart = BPMod.bp_IFB (Cox, 0.5, 0)
  CFCoxScaler = CoxScaler / 10
  FCox = CoxPart * CFCoxScaler
  TotalCFPoints = FTRW + FJob + FResid + FGood + FHiGood + FDerog + FPhBill + FRepo +
   FBK + FHome + FInc + FDebt + FSpouse + FCox + FineTune
   CustFact = BpMod.bp_ROUND(BPMod.bp_MAX( BPMod.bp_MIN(TotalCFPoints, 5 ), 0.001 ) *
   0.98, 2)
    [END FINAL CUSTOMER FACTOR CALCULATION]
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'[CALCULATE SCALER IF GOOD CUSTOMER WITH HIGH DEBT = "DEBTSCALER"]
  DebtScaler_exp1 = BPMod.bp_IFOR2( BPMod.bp_IFLE( TotalLessIns,RealInc * 5,1,0
  ), BPMod.bp\_IFLE(TotalLessIns, 4500, 1, 0), 1, 0)
  DebtScaler_exp2 = BPMod.bp_IFGE( RealJob,1,1,0 )
DebtScaler_exp3 = BPMod.bp_IFGE( YrsTRW,1,1,0 )
  DebtScaler_exp4 = BPMod.bp_IFOR2( BPMod.bp_IFLE( TotalDerog,1,1,0 ),BPMod.bp_IFLE(
  RealHiDerog, 400, 1, 0), 1, 0)
  DebtScaler_exp5 = BPMod.bp_IFLE( TotalGood,4,1,0 )
DebtScaler_exp6 = BPMod.bp_IFL( TotalGood,TotalDerog,1,0 )
DebtScaler_exp7 = BPMod.bp_IFL( RealInc,1700,1,0 )
DebtScalerCondition = DebtScaler_exp1 * DebtScaler_exp2 * DebtScaler_exp3 * DebtScaler_exp4 * DebtScaler_exp5 * DebtScaler_exp6 * DebtScaler_exp7
  DSInc = BPMod.bp_MAX( RealInc, 1200 )
DebScalerExp = 0.5 + ( DSInc - 1200 ) / 1000
  DebtScaler = BPMod.bp_IFB( DebtScalerCondition,DebScalerExp,1 )
  '[CALCULATE DEBT RATIO HIT FOR PAY PROB ADJUSTMENTS = "DEBTPROBLEM"]
  DebtRatio = RealInc / TotDebt
  DebtHitExp = BPMod.bp_IFLE( DebtRatio, 2, 0.225 + ( 2 - DebtRatio ) * 0.6, ( 2.5 -

    DebtRatio ) * 0.45 )

DebtHit = BPMod.bp_IFLE( DebtRatio, 2.5, DebtHitExp,0 )
DHMax1 = BPMod.bp_MAX( 0.95 - EquityTest, 0 )
DHMax2 = BPMod.bp_MAX( 0.75 - EquityTest, 0 )
DebtHitScaler = 1.05 - DHMax1 - DHMax2
🛂 DebtProblem = DebtHit * DebtHitScaler * DebtScaler
M
1
[EXCESS TERM DETERMINATION MODEL BEYOND BASETERM--MODEL YIELDS "FREETERM",

"ENTERM", & "EXTERM"]
  BaseTerm = 31
  MinPmt = 255 - (SigDown / 75)
  OKPmt = BPMod.bp_IFGE( Payment, MinPmt, 1, 0)
RegularFreeTerm = BPMod.bp_IFG( CustFact, FreeGetNone, 1, 0 )
  YEMiles = LookupTermTable( vClass, 2 )
YEAge = LookupTermTable( vClass, 3 )
MEAge = LookupTermTable( vClass, 4 )
   MEMiles = LookupTermTable( vClass, 5 )
   FreeTermPercent = BPMod.bp_MIN( ( CustFact - FreeGetNone ) / ( FreeGetAll -
   FreeGetNone ), 1 )
   Term4NewerCar = BPMod.bp_IFLE( Miles, YEMiles, BPMod.bp_MAX( YEAge - CarAge, 0 ), 0
   ) * FreeTermPercent
   Term4LowMiCar = BPMod.bp_IFLE( CarAge, MEAge, BPMod.bp_MAX( ( MEMiles - Miles ) /
   5000, 0 ), 0 ) * FreeTermPercent
   StrongBuyerFreeTerm = BPMod.bp_IFG ( CustFact, SBGetNone, 1, 0 )
   SBAge = LookupTermTable( vClass, 6 )
   SBMiles = LookupTermTable( vClass, 7 )
   SBFreeTermPercent = BPMod.bp_MIN( ( CustFact - SBGetNone ) / ( SBGetAll - SBGetNone
   ), 1)
   Term4StrongBuyer = BPMod.bp_IFAND2( BPMod.bp_IFLE ( CarAge, SBAge, 1, 0
   ),BPMod.bp_IFLE ( Miles, SBMiles, 1, 0 ),3 * SBFreeTermPercent, 0 )
QualifyFreeTerm = BPMod.bp_IFAND2( BPMod.bp_IFB( RegularFreeTerm, 1, 0
   ),BPMod.bp_IFB( StrongBuyerFreeTerm, 1, 0 ),Term4NewerCar + Term4LowMiCar +
   Term4StrongBuyer,BPMod.bp_IFB ( RegularFreeTerm, Term4NewerCar + Term4LowMiCar, 0 )
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FreeTerm = BPMod.bp_IFG( Term, BaseTerm, BPMod.bp_MIN( QualifyFreeTerm, Term -
  BaseTerm ), 0 ) * OKPmt
  OKTerm = BaseTerm + FreeTerm
  BuyTerm = BPMod.bp_MAX( Term - OKTerm, 0 )
  ExTermScaler = ( CustFact -1 ) /1.75 * 0.01
  ExcessCharge = BPMod.bp_IFG ( CustFact, 1, 0.015 - ExTermScaler, 0.015 )
  CostPerMonth = BPMod.bp_MAX( ExcessCharge, .005 )

PmtBelow250 = BPMod.bp_IFL ( Payment, 250, 1000, 1 )

TooLong = BPMod.bp_IFG ( BuyTerm, 6, 1000, 1 )

MustBuyTerm = BPMod.bp_IFGE ( BuyTerm, 0, 1, 0 )

EXTERM = BPMod.bp_IFB ( MustBuyTerm, CostPerMonth * BuyTerm * PmtBelow250 * TooLong, 0 ) * (CB - Ins - WarrAllowance)
    [END EXCESS TERM DETERMINATION MODEL]
   '[PRIMARY TERM HIT/HELPER = "XTERM"]
  TermCust = CustFact * 20
  KentTerm = (12 - CarAge) * 6
ClassScaler = ClassTerm / 5
CBTerm = BPMod.bp_IFG ( (MaxCB - Ins ), 6000, (MaxCB - Ins - 6000 ) / 500, 0 )
TermCFScaler = BPMod.bp_IFG ( CustFact, 1, BPMod.bp_MIN( CustFact - 1, 1 ), 0 )
TermCar = KentTerm + (ClassTerm + CBTerm * ClassScaler ) * TermCFScaler
TermMaxMiles = 180000 - (vClass * 10000 )
SubtractTerm = BPMod.bp_IFG( Miles, TermMaxMiles, ( ( Miles - TermMaxMiles ) / 10000
   ) * vclass / 2, 0 )
TermMax = BPMod.bp_MIN( TermCar, TermCust ) + BuyTerm * 0.5 + FreeTerm * 0.5 -
🔧 SubtractTerm
TXTerm = Term - TermMax
'[PAYMENT PROBABILITY MODEL]
[CUSTOMER FACTOR COMPONENT = "CFALLOWANCE"]
CFSMin = LookupCFScalerTable(CustFact, 1)
   CFSBase = LookupCFScalerTable( CustFact, 2 )
GFSExtra = LookupCFScalerTable( CustFact, 3
CustFactScaler = CFSBase + ( CustFact - CFSMin ) * CFSExtra CFAllowance = CustFactScaler * CustFact
   '[DOWN PAYMENT COMPONENT = "DOWNPRICE"]
   FedExTax = BPMod.bp_IFGE( CustFact, 2.5, 0, BPMod.bp_MIN( ( 2.5 - CustFact ) * 76,
   39 ) )
   InputDiscount = Reserve - FedExTax
   DownAllowance = ( Price * 0.2 ) + InputDiscount + SigDown - ExTerm
   DownPrice = DownAllowance / Price
   '[OVERALL SCALER]
   PPScaler = 0.95
    '[ADJUSTMENTS = "PPADJUST"]
   PPDebt = DebtProblem * - 0.7
   PPCrap = (CrapRatio * DebtScaler) * - 1
   PPStupid = BPMod.bp_IFB( BPMod.bp_IFL( Payment/Term, StupidNum, 1, 0 ) *
   BPMod.bp_IFGE( Term, StupidTerm, 1,0), (StupidNum - Payment / Term) * - 0.1, 0)
   PPTerm = XTerm * - 0.01
   PPAdjust = PPTerm + PPDebt + PPStupid + PPCrap
    PayProb = CFAllowance * DownPrice * PPScaler + PPAdjust
     [END PAYMENT PROBABILITY MODEL]
```

```
'[DISCOUNT NEEDED BASED ON PAYMENT PROBABILITY MODEL = "SPREADNUM"]
    LossProb = BPMod.bp_MIN ( 1 - PayProb, 1.1 )
    DiscountAllow = InputDiscount * 2
    LossAmount = LossProb * ( TotalLessIns - WarrAllowance ) + ExTerm - DiscountAllow Spread = SpreadReq * ( CB - Ins - WarrAllowance )
    SpreadNum = ( LossAmount + Spread ) * SpreadNumScaler
     '[MINIMUM % DISCOUNT AREA]
   '[CALCULATE MIN % DISCOUNT DEPENDING OF # REPOS = "MINREPO"]
MinRepoExp3 = BPMod.bp_CASE3( repos, 1, 2, 3, 0.125, 0.20, 0.35, 0.50)
MinRepoExp2 = BPMod.bp_CASE2( repos, 1, 2, 0.10, 0.175, 0.30)
MinRepoExp1 = BPMod.bp_IFB( BK,MinRepoExp2, MinRepoExp3)
MinRepo = BPMod.bp_IFE( Repos, 0, 0.10, MinRepoExp1)
    '[CALCULATE MIN % DISCOUNT BASED ON HI DEROG = "MINDEROG"]
    minDerog = BPMod.bp_IFB( BPMod.bp_IFGE( RealHiDerog, 3000, 1,0 ) * BPMod.bp_IFE( BK,0,
    1,0), MinDiscHiDerog, MinDiscount)
     '[CALCULATE MIN % DISCOUNT BASED ON LOW TIME ON BUREAU = "MINTRW"]
Mintrwexp = BPMod.bp_IFOR2( BPMod.bp_IFGE( FTBPoints,9,1,0 ), BPMod.bp_IFGE( Coxscaler,30,1,0 ), 0.125 ~ ( YrsTRW / 40 ), 0.15 ~ ( YrsTRW / 20 ) )

Mintrw = BPMod.bp_IFL( YrsTRW, 1, Mintrwexp , 0.10 )
[CALCULATE MIN % DISCOUNT BASED ON CUSTOMER FACTOR = "MINFACT"]
\blacksquare FactMinDisc = 0.3
FactMindisc = 0.3

SigDownHelper = (SigDown * 0.25) / (TotalLessIns - WarrAllowance)

Below75 = BPMod.bp_IFL(CustFact, 0.75, 1, 0)

Below75Hit = BPMod.bp_IFL(CustFact, 0.35, .2, (75 - (CustFact * 100)) * .005)

Below35 = BPMod.bp_IFL(CustFact, 0.35, 1, 0)

Below20 = BPMod.bp_IFL(CustFact, 0.20, 1, 0)

Below20 = BPMod.bp_IFL(CustFact, 0.20, 1, 0)
LowBalScaler = BPMod.bp_IFLE( TotalLessIns, 2000, 0.50, BPMod.bp_IFLE( TotalLessIns, 3000, 1 - ( (3000 - TotalLessIns ) / 1000 ) * 0.50, 1 ) )

MinFact75 = (FactMinDisc + Below75Hit - SigDownHelper ) * LowBalScaler

MinFact35 = BPMod.bp_IFB( Below35, BPMod.bp_IFB( Below20, 10, BPMod.bp_IFG(
TotalLessIns, 3000, 10, 0 ) ), 0 )

MinFact = BPMod.bp_IFB( Below75, BPMod.bp_MAX( MinFact75, MinFact35 ), MinDiscount )

"IFND MINIMUM % DISCOUNT AREA]
    '[END MINIMUM % DISCOUNT AREA]
     '[ADDITIONAL DISCOUNT FOR KINKY TERM = "KINKTERM"]
    TermIsKinky = BPMod.bp_IFG( Term, KinkMaxTerm, 1, 0 )
KinkSubtot = BPMod.bp_MAX( Carage - KinkAge, 0 ) + BPMod.bp_MAX( Miles - KinkMiles,
    0 ) / 10000
    PointsFromCF = BPMod.bp_MAX( KinkCF - CustFact, 0 ) * 10 * KinkSubTot
    OverMax = BPMod.bp_MIN( BPMod.bp_MAX( Term - KinkMaxTerm, 0 ), 3 )
    TotalKinkPoints = ( KinkSubtot * OverMax ) + ( KinkSubtot * PointsFromCF * OverMax )
    KinkTerm = BPMod.bp_IFB( TermIsKinky, TotalKinkPoints * CostPerKinkPoint, 0 )
    '[GET FINAL RESERVE]
    MinDisc = BPMod.bp_IFGE( CustFact, 2.5, 300, BPMod.bp_MIN( (2.5 - CustFact ) * 88 +
    300, 344 ) )
MinPercent = BPMod.bp_MAX( BPMod.bp_MAX( BPMod.bp_MAX( MinDerog, MinTRW ),

BPMod bp_MAX( MinFact. MinDiscount ) )
   BPMod.bp_MAX( MinBK, MinRepo ) ), BPMod.bp_MAX( MinFact, MinDiscount ) )
MinReserve = MinPercent * ( TotalLessIns - WarrAllowance )
FinalSubtot = BPMod.bp_MAX( BPMod.bp_MAX( MinDisc, MinReserve ), SpreadNum )
    TooMuchTerm = BPMod.bp_IFG( Term, 48, 50000, 0 )
                                                                       Page 13
```

```
CA EXPRESSIONS WITH COMMENTS.txt
  PmtTooSmall = BPMod.bp_IFL( Payment, TooSmallPmt, 50000, 0 )
  FinalReserve = FinalSubtot + KinkTerm + ExTerm + TooMuchTerm + PmtTooSmall
   '[GET OVERADVANCE AND CHECK TO DEALER]
  REALOA=BPMod.bp_IFG(CB, MAXCB, CB-MAXCB, 0.00)
  CheckToDealer=CB-INS-RESERVE-ACQFEE-REALOA
  OA=Round(REALOA+0.50, 0)
   '[HINT AND ERROR SECTION]
  '[NEED THE FOLLOWING TO BEGIN HINTS]
  DebtP= TotDebt/RealInc
  DebtDiff= DebtP - 0.55
  LessDebt= DebtDiff*RealInc + 5
  GetDown= (2000-RealDown)*0.8
  LowerPrice= (1000-SigDown-GetDown)/0.8
  '[HINTS]
- 'CHANGE
if repos > 3 then
hint1 = " wow! " + formatnumber(repos,0) + " repossessions!!! "
end if
  end if
'CHANGE
m if repos > 2 then
hint2 = " But... " + fo
bill, get a blood sample.
end if
                      " + formatnumber(repos,0) + " repossessions? Forget the phone
  'CHANGE
  if ((PPStupid+PPTerm < -0.15) and (FinalReserve > (CB-Ins)*0.15) and (FinalReserve >
500)) then hint3 = " \
            ' You could do better with a shorter term.
₫ end if
  'CHANGE
if ((DealerGross < 0) and (RealInc < 1400)) then
  hint4= "Try a less expensive car for this income so you can make a better deal."
  end if
   'CHANGE
  if ((CustFact < 0.75) and (MinRepo*(TotalLessIns-WarrAllowance) <=
  FinalReserve-200)) then
  hint5= "Try a lower price, or more down, or a shorter term. You might make a
  better deal.
  end if
   'CHANGE
  if ((YrsTRW = 0) \text{ and } (Good > 0) \text{ and } (Good < 3)) then
  hint6= " Make sure you get documentation showing the good credit. No rental,
  medical, or dental.
  end if
   'CHANGE
  if ((Home = 1) and (HiGood < 30000)) then hint7= " If the house is not on the credit bureau, then make sure to send proof of
  home-owner.
  end if
```

Page 14

```
'if ((Miles <> 117545) or (Price <> 6995)) then
  if (InputDiscount >= FinalReserve) then
  hint8= " It's a deal!
  end if
  'CHANGE
  if (Miles < 100000 and (BPMod.bp_THISYEAR-CarYear > 9)) then
  hint9= "Better check the miles. If the car is over 10 years old, you have to input
  at least 100,000 miles.
  end if
  'CHANGE
  if Miles < (BPMod.bp_THISYEAR-CarYear)*7000 then hint10= " Check your miles. Your input is very low, unless the last owner was my
  grandmother."
  end if
   'CHANGE
  if repos >= 5 then
  hint11= " Like a '72 Pinto.
  end if
'CHANGE
if ((Repos > 0) and (HiDerog < 3000)) then
hint12= "Don't forget that the Hi Derog is the amount of the loan, not how much was
charged off.
_end if
L 'CHANGE
if BK = 1 then
hint13= " Bankruptcy must be discharged.
mend if
L'CHANGE
= if ((YrsTRW = 0) and (Good > 2)) then
hint14= " You can't have more than 2 good credit items that are not on the bureau.
   end if
T
CHANGE
Tif ((Job > 2) and (Resid > 2) and (Job = Resid)) then hint15= "If this is a military deal, don't forget to send a completed Mac
   allotment. Must be rank of E3 or higher.
   end if
   'CHANGE
   if Support > 0 then
                Remember not to count Family Support accounts as Good or Derog. "
   hint16=
   end if
   'CHANGE
   if ((DebtPart < 0) and (LessDebt < 40) and (FinalReserve >= BPMod.bp_MAX(MinDisc, MinReserve) + KinkTerm + ExTerm + 100) and (Payment-LessDebt > 170)) then hint17= "You can make a better deal if you use Price and Down to get the payment about " + formatnumber(LessDebt,0) + "dollars lower."
   end if
    'CHANGE
   if ((DebtPart < 0) and (LessDebt > 40) and (FinalReserve >= BPMod.bp_MAX(MinDisc, MinReserve) + KinkTerm + ExTerm + 100) and (Payment-LessDebt > 170)) then hint18= " You could make a lot better deal if the payment was " + formatnumber(LessDebt,0) + " dollars lower. Try a less expensive car. " Page 15
```

```
end if
   'CHANGE
   if GetDown+SigDown <= 1000 then
   hint19≈ " And lower the Price by about " + formatnumber(LowerPrice, 0) + " dollars.
   end if
   'CHANGE
   if ((SigDown >= 850) and (SigDown < 1000) and (FinalReserve >= BPMod.bp_MAX(MinDisc,
   MinReserve) + KinkTerm + ExTerm + 100)) then
     if RealDown < 2000 then
hint20= "You might of
                     You might do better if you get 2000 dollars down. " +hint19
     else
   hint20= " You might do better if you lower the Price by about " + formatnumber((1000-SigDown)/0.8, 0) + " dollars. "
     end if
   end if
   'CHANGE
   hint22= "Try putting down " + dollarString(OA,0) + " more, or lower the price."
if ((CustFact > 1.0000000000) and (OA > 0)) then
  hint21= "Try putting down " + formatnumber(OA,0) + " dollars more, or reserve
  the O-A, then:"
   else if (OA > 0) then
   hint21= ""
   hint21= ""
        hint25=hint22
        hint8=
end if
end if
if (CustFact < 1.00000000) then
     hint23= "You can't reserve the O-A, because the Customer Factor has to be over 1.
= else
    hint23= ""
end if
   'if (vClass = 5) then
'_hint24= " You can't reserve the O-A, because the Car Class cannot be 5."
      hint24= ""
   'end if
   '[ERROR CHECKING]
   DeathErr4 = BPMod.bp_IFG( KinkTerm,( CB - Ins ) * .1, 4, 0 )
DeathErr3 = BPMod.bp_IFL( Payment, TooSmallPmt, 3, DeathErr4 )
DeathErr2 = BPMod.bp_IFGE( EXTerm, 0.25 * ( CB - Ins ), 2, DeathErr3 )
   DeathErr1 = BPMod.bp_IFG( Term, 48, 1, DeathErr2 )
   Err9 = BPMod.bp_IFL( FCox,0,9,10 )
Err8 = BPMod.bp_IFG( KinkTerm,( CB - Ins ) * .02, 8, Err9 )
   if (CB-MAXCB \ll 0.00) then
     Err7 = Err8
     else
      if (CB-MAXCB < 300) then
        Err7 = 12
        else
        if (CB-MAXCB <= 1000) then ' [o/a is between 300 and 1000, inclusive]
          Err7 = 7
                                                     Page 16
```

```
else
         Err7 = 11
       end if
  end if end if
  Err6 = BPMod.bp_IFL( Reserve, 300, 6, Err7 )
Err5 = BPMod.bp_IFL( Reserve, .10 * ( CB - Ins - WarrAllowance ), 5, Err6 )
  ErrCode = BPMod.bp_IFG( FinalReserve, CB, DeathErr1, Err5 )
  Errstr = ErrLookup(ErrCode)
  NoDollarOA=FormatNumber(REALOA,0)
  if (REALOA = 0.00) then OAStr = ""
  else
    OAStr = "$ " & FormatNumber(OA,0)
  end if
  StructOK = InputDiscount >= FinalReserve
  AMTOK = CB <= MAXCB
  Set BPMod = Nothing
If Err.Number <> 0 then
SystemError = Err.Description
End if
[END EXPRESSIONS]
M
```

TipType.bpD

None, 0 Aladdin Resort & Casino,1 Arizona Charlies East,4 Aztec Inn Casino,4 Arizona Charlies,3 Barbary Coast,3
Bally's Las Vegas,1 Bellagio,1 Binion's Horseshoe,5 Boardwalk Casino,3 Boulder Station Hotel & Casino,2 Caesars Palace,1 California Hotel & Casino,2 Castaways Hotel,3 Circus Circus Hotel & Casino,2 Crowne Plaza,5 Excalibur Hotel & Casino,1 El Cortez Hotel & Casino,5 Fiesta Casion Hotel,4 Flamingo Las Vegas,1 Fitzgeralds Casino & Holiday,1 Four Queens Casino / Hotel,2 Fremont Hotel & Casino,2 Golden Nugget,1 Gold Coast Hotel & Casino,3 Hacienda Hotel & Casino,3 Hampton Inn Tropicana,4 Hard Rock Hotel & Casino, 1 Harrah's Las Vegas Casino,2 Hotel San Remo, 2 Hyatt Regency Lake Las Vegas,2 Imperial Palace Hotel & Casino,2 Key Largo Casino & Quality Inn,4 Lady Luck Casino & Hotel,3 Las Vegas Club,2 Las Vegas Hilton,1 Luxor Las Vegas,1 Main Street Station, 3 Mandalay Bay Resort & Casino,1 Maxim Hotel & Casino ,4 MGM Grand Hotel & Casino,1 Mirage Hotel & Casino,1 Monte Carlo Resort & Casino,1 Nevada Palace Hotel & Casino,3 New Frontier,2 New York - New York, 1 Orleans Hotel & Casino,2 Palace Station Hotel & Casino,2 Palms Casino Hotel,2 Paris Las Vegas Casino Resort,1 Plaza Hotel & Casino,3 Regent Las Vegas, 3 Reserve Hotel & Casino, 3 Rio All Suite Hotel & Casino,1 Riviera Hotel & Casino,1 Sahara Hotel & Casino,1 Sam's Town Hotel & Gambling,1 Santa Fe Station & Hotel,1 Silverton Hotel & Casino,4 Stardust Resort & Casino,2 Stratosphere Casino Hotel,2 Suncoast Hotel & Casino,4 Sunset Station Hotel & Casino,2

TipType.bpD

Terrible's Hotel & Casino,4
Texas Station Gambling Hall,2
Treasure Island,1
Tropicana Resort & Casino,1
Venetian Resort Hotel,1
Union Plaza Hotel & Casino,3
Vacation Village,3
Westward Ho Hotel & Casino,3
Wild Wild West Hotel,3
ALL OTHER CASINOS,1
Strip Clubs (Click one below):,0
Can Can Room,6
Cheetah,6
Club Paradise,6
Crazy Horse Too,6
déjà vu,6
Diva's,7
Forbidden Club,7
Library,7
Lil' Darlings,7
Olympic Gardens,6
Spearmint Rhino,6
Strip Tease,7
Talk of the Town,7
All OTHER STRIP CLUBS,8

TipJob.bpD

None/Not Full Time,0
Bar Back,4
Bartender,1
Bell Person,5
Change Person,4
Cocktail Server,2
Dealer,1
Exotic Dancer,9
Food Server,3
Room Service,4
Valet,5
Other Tipped Employee,4

Page 1

```
: unit main;
- 2:
 3: interface
 4:
 5: uses
      ActiveX, MtsObj, Mtx, ComObj, BPfunctionsModule_TLB, StdVcl;
 6:
 7:
 8: type
      TBPFunctions = class(TMtsAutoObject, IBPFunctions)
 9:
10:
      protected
        function bp_IFG(Value1: Double; Value2: Double; Result1: Double; Result2: Double):
11:
12:
          Double; safecall;
13:
        function bp IFB(Condition, Result1, Result2: Double): Double; safecall;
        function bp_IFL(Value1, Value2, Result1, Result2: Double): Double;
14:
15:
          safecall;
        function bp IFNE(Value1, Value2, Result1, Result2: Double): Double;
16:
17:
          safecall;
18:
        function bp_CASE2(Key, Value1, Value2, Result1, Result2,
          ResultElse: Double): Double; safecall;
19:
        function bp_CASE3(Key, Value1, Value2, Value3, Result1, Result2, Result3,
20:
          ResultElse: Double): Double; safecall;
21:
        function bp_CASE4(Key, Value1, Value2, Value3, Value4, Result1, Result2,
22:
          Result3, Result4, ResultElse: Double): Double; safecall;
23:
        function bp_IFAND2(Value1, Value2, Result1, Result2: Double): Double;
24:
25:
          safecall;
26:
        function bp_IFE(Value1, Value2, Result1, Result2: Double): Double;
27:
          safecall;
        function bp IFLE (Value1, Value2, Result1, Result2: Double): Double;
28:
29:
30:
          safecall;
        function bp_IFOR2(Value1, Value2, Result1, Result2: Double): Double;
31: 📮
          safecall;
        function bp MAX(Value1, Value2: Double): Double; safecall;
32:
33:
        function bp_MIN(Value1, Value2: Double): Double; safecall;
        function bp_OCCAPR(LoanDate, FirstPaymentDate: TDateTime; InterestRate,
35: W
          Principal, Term, Payment: Double): Double; safecall;
        function bp ROUND(NumberToRound, Exponent: Double): Double; safecall;
36: ∭
37:
        function bp_TRUNC(NumberToTrunc, Exponent: Double): Double; safecall;
38: 39: 9
        function bp IFGE(Value1, Value2, Result1, Result2: Double): Double;
          safecall;
        function bp_ADDONPMT(Principal, Term, AddOnRate,
40:
41: _
          DaysToFirstPayment: Double): Double; safecall;
        function bp_PMT(InterestRate, Term, Principal,
42:
          DaysToFirstPayment: Double): Double; safecall;
44: 🔲
        function bp_VEHICLEAGE(VehicleYear, MonthOfManufacture: Double): Double;
45:4
          safecall;
46:
47:
        function bp_CEILING(NumberToCeiling, Exponent: Double): Double; safecall;
        function bp_FLOOR(NumberToFloor, Exponent: Double): Double; safecall;
48:1
        function bp THISYEAR: Double; safecall;
49:
        { Protected declarations }
50:
      end;
51:
52: const OccDaysInYear = 360;
54: implementation
55:
56: uses ComServ, math, StDate, SysUtils;
57:
58: function IncMonth(const date:TDateTime):TDateTime;
59: var
     orpDate : TstDate; { Orpheus functions }
60:
61: begin
     orpDate := STDate.DateTimeToSTDate(date);
62:
63:
      orpDate := IncDateTrunc(orpdate, 1, 0);
      result := STDate.STDateToDateTime(orpDate);
64:
65: end;
66:
67: function DecMonth(const date:TDateTime):TDateTime;
68: var
69:
     orpDate : TstDate; { Orpheus functions }
70: begin
      orpDate := STDate.DateTimeToSTDate(date);
71:
72:
      orpDate := IncDateTrunc(orpdate, -1, 0);
73:
      result := STDate.STDateToDateTime(orpDate);
74: end;
75:
76: function ComputeOccUnitPeriods(const firstPaymentDate:TDateTime;
                                   const loanDate:TDateTime;
77:
                                        unitPeriods:extended):extended;
78:
                                   var
79: var
```

```
ັປ0:
       D2 : TDateTime;
 81:
       D1 : TDateTime;
 82:
       done : boolean;
 83: begin
       D2 := firstPaymentDate;
 84:
 85:
       unitPeriods := 0;
 86:
       done := False;
 87:
       repeat
 88:
         D1 := D2;
         D2 := DecMonth(D2);
 89:
 90:
         if D2 >= loanDate then
 91:
           unitPeriods := unitPeriods + 1
 92:
          else
 93:
            done := True;
 94:
       until done;
       result := Trunc(D1 - loanDate);
 95:
 96: end;
 97:
 98:
 99:
100: function TBPFunctions.bp_IFG(Value1, Value2 , Result1,
101:
       Result2: Double): Double;
102: begin
103:
       if (value1 > value2) then
104:
         result := result1
105:
       else
         result := result2
106:
107: end;
108:
109: function TBPFunctions.bp_IFB(Condition, Result1, Result2: Double): Double;
111: if (Condition = 0) then
112: result - - - -
110: begin
113: 🚅 else
114:
         result := result1
115: end;
116: 0
117: Lunction TBPFunctions.bp IFL(Value1, Value2, Result1,
118: Result2: Double): Double;
119: begin
120: if (value1 < value2) then
121: result := result1
122: 🖳 else
123:
124: end;
125:
         result := result2
126: Junction TBPFunctions.bp_IFNE(Value1, Value2, Result1,
127: Result2: Double): Double;
128: begin
129:
       if (value1 <> value2) then
130:
         result := result1
131:
       else
         result := result2
132:
133: end;
134:
135: function TBPFunctions.bp_CASE2(Key, Value1, Value2, Result1, Result2,
      ResultElse: Double): Double;
136:
137: begin
       if (key = Value1) then
138:
         result := Result1
139:
140:
       else if (key = Value2) then
         result := Result2
141:
142:
       else
143:
         result := ResultElse;
144: end;
145:
146: function TBPFunctions.bp CASE3(Key, Value1, Value2, Value3, Result1,
147:
       Result2, Result3, ResultElse: Double): Double;
148: begin
149:
       if (key = Value1) then
         result := Result1
150:
       else if (key = Value2) then
151:
152:
         result := Result2
153:
       else if (key = Value3) then
154:
         result := Result3
155:
156:
         result := ResultElse;
157: end;
                                                       B-59
158:
```

```
159: function TBPFunctions.bp_CASE4(Key, Value1, Value2, Value3, Value4,
       Result1, Result2, Result3, Result4, ResultElse: Double): Double;
161: begin
162:
       if (key = Value1) then
163:
          result := Result1
164:
        else if (key = Value2) then
          result := Result2
165:
166:
        else if (key = Value3) then
          result := Result3
167:
168:
        else if (key = Value4) then
169:
         result := Result4
170:
        else
171:
         result := ResultElse;
172: end;
173:
174: function TBPFunctions.bp IFAND2(Value1, Value2, Result1,
175:
       Result2: Double): Double;
176: begin
177:
       if (value1 >= 1) and (value2 >= 1) then
178:
         result := result1
179:
        else
         result := result2
180:
181: end;
182:
183: function TBPFunctions.bp IFE(Value1, Value2, Result1,
       Result2: Double): Double;
184:
185: begin
       if (value1 = value2) then
186:
187:
         result := result1
188:
       else
189:
         result := result2
190: end;
191: 🖻
192: Function TBPFunctions.bp_IFLE(Value1, Value2, Result1, 193: Result2: Double): Double;
194: begin
195: if (value1 <= value2) then
196: re
197: else
198: re
        result := result1
        result := result2
199: end;
200: function TBPFunctions.bp IFOR2(Value1, Value2, Result1,
202: Result2: Double): Double;
203: begin
204: if (value1 >= 1) or (value2 >= 1) then
205: result := result1
         result := result1
206: else
207:
         result := result2
208: end;
209:
210: function TBPFunctions.bp_MAX(Value1, Value2: Double): Double;
212:
       if Value1 > Value2 then
         Result := Value1
213:
214:
       else
215:
         Result := Value2;
216: end;
217:
218: function TBPFunctions.bp_MIN(Value1, Value2: Double): Double;
219: begin
220:
       if Value1 < Value2 then
221:
         Result := Value1
222:
       else
223:
         Result := Value2;
224: end;
225:
226: function TBPFunctions.bp_OCCAPR(LoanDate, FirstPaymentDate: TDateTime;
227:
       InterestRate, Principal, Term, Payment: Double;
228:
     var
229:
       done : boolean;
230:
       U1 : double;
231:
       R
            : double;
232:
       a,
233:
       apr,
234:
       p1
            : Double;
235:
       PO,
236:
       Х,
                                                       B-60
237:
       U,
```

```
238:
                  { amount financed }
239:
       APU : double;
                       { actual APR }
240:
241:
       procedure ComputePV;
242:
         x1 : extended;
243:
244:
         v1 : extended;
245:
         v2 : extended;
246:
         v3 : extended;
         z : extended;
Y : extended;
247:
248:
            : extended;
249:
         occOddDays : extended;
250:
         unitPeriods : extended;
251:
       begin
         occoddDays := ComputeOccUnitPeriods(firstPaymentDate, loanDate, unitPeriods);
252:
253:
         P0 := 0.00;
         X1 := 1.00 + X_i
254:
         Y := 1.00 + OccOddDays * X / U;
255:
         V1 := (1.00 / power(X1, unitPeriods)) / Y;
256:
         V2 := 1.00 / power(X1, term);
257:
         V3 := 1.00 - V2;
258:
         Z := V1 * X1 * payment * V3 / X;
259:
         P0 := P0 + Z;
260:
261:
       end;
262: begin
263:
264:
       try
         P := Principal;
265:
266:
         U := 30;
         U1 := U / OccDaysInYear;
267:
         R := InterestRate * U1 / 100.00;
268:
269: □
         done := False;
270: <del>-</del> 271: <del>-</del>
         while not done do
         begin
272: 📮
           X := 0.0001;
273: [1]
           IF R <> 0.000 THEN
274:
             X := R;
276:
           ComputePV;
277: 🗂
            P1 := P0;
278: *** 279: ***
           X_{.} := R + 0.0001;
           ComputePV;
280: 📮
281:
           APR := R + (P - P1) / (P0 - P1) * 0.0001;
282:
283:
           A := ABS(APR - R);
284: 🖳
           IF A > 0.0000001 THEN
             R := APR
285:
286:1
287:1
            else begin
              APU := (100.00 / U1) * APR;
288:
              done := True;
289:
            end
290:
          end; { while )
         result := APU;
291:
292:
       except
         result := 0.00;
293:
294:
       end;
295: end;
296:
297:
298:
299: function TBPFunctions.bp_ROUND(NumberToRound, Exponent: Double): Double;
300: var
301:
       TempNum1 : extended;
302:
       TempNum2 : int64;
303: begin
       TempNum1 := NumberToRound * power(10, Exponent);
304:
       TempNum2 := round(TempNum1);
305:
       result := TempNum2 * power(10, (Exponent * (-1)));
306:
307: end;
308:
309: function TBPFunctions.bp_TRUNC(NumberToTrunc, Exponent: Double): Double;
310: var
311:
       TempNum1 : extended;
       TempNum2 : int64;
312:
313: begin
       TempNum1 := NumberToTrunc * power(10, Exponent);
314:
       TempNum2 := trunc(TempNum1);
315:
       result := TempNum2 * power(10, (Exponent * (-1676));
316:
```

```
317: end;
318:
319: function TBPFunctions.bp_IFGE(Value1, Value2, Result1,
320:
       Result2: Double): Double;
321: begin
322:
       if (value1 >= value2) then
323:
         result := result1
324:
       else
325:
         result := result2
326: end;
327:
328: function TBPFunctions.bp ADDONPMT(Principal, Term, AddOnRate,
329:
       DaysToFirstPayment: Double): Double;
330: var
331:
       netTerm : extended;
332:
       oddTerm : extended;
333:
       oddDay : extended;
334:
       FinanceCharge : extended;
335: begin
       oddDay := daysToFirstPayment - 30;
336:
       oddTerm := oddDay / 30;
337:
338:
       netTerm := term + oddTerm;
339:
340:
       if addOnRate < 1.00 then
341:
          financeCharge := principal * addOnRate * netTerm / 12
342:
       else
343:
          financeCharge := principal * addOnRate * 0.01 * netTerm / 12;
344:
345:
       result := (principal + financeCharge)/term;
346: end;
347:
348: Function TBPFunctions.bp PMT(InterestRate, Term, Principal,
349: DaysToFirstPayment: Double): Double;
350: war
351: apr: extended;
352: pv: extended;
354: oddDay : extended;
355: dailyCharge : extended;
356: oddDayCharge : extended;
357: Degin
358: if interestRate > 1.00 then
359: apr := interestRate/100.0
         apr := interestRate/100.00
360: else
361:
         apr := interestRate;
362: 363:
       oddDay := (daysToFirstPayment - 30);
364: dailyCharge := (principal * apr)/365;
365: oddDayCharge := oddDay * dailyCharge;
366: 1 pv
367: res
            := principal + oddDayCharge;
       result := - Math.Payment(apr/12, trunc(term), pv, 0, ptEndOfPeriod);
368: end;
369:
370: function TBPFunctions.bp_VEHICLEAGE(VehicleYear,
       MonthOfManufacture: Double): Double;
371:
372: var
373:
        PastYear, NumberOfMonths, NumberOfYears, PresentYear, PresentMonth, Day : word;
374: begin
375:
376:
           DecodeDate (Date, PresentYear, PresentMonth, Day);
377:
           PastYear := trunc(VehicleYear);
378:
           if (PresentYear > PastYear -1) then
379:
380:
               NumberOfYears := PresentYear-PastYear;
381:
               NumberOfMonths := PresentMonth+(NumberOfYears*12)+(12-trunc(MonthOfManufacture))
382:
           end
383:
           else
              NumberOfMonths := 0;
384:
385:
386:
           Result := NumberOfMonths;
387:
        except
388:
         raise;
389:
        end;
390: end;
391:
392: function TBPFunctions.bp CEILING(NumberToCeiling,
393:
       Exponent: Double): Double;
394: var
                                                       B-62
395:
       TempNum1 : extended;
```

```
396: TempNum2 : Integer;
 397: begin
 398:
        TempNum1 := NumberToCeiling * power(10, Exponent);
 399:
        TempNum2 := ceil(TempNum1);
 400:
        result := TempNum2 * power(10, (Exponent * (~1)));
 401:
 402: end;
 403:
 404: function TBPFunctions.bp_FLOOR(NumberToFloor, Exponent: Double): Double;
 405: var
        TempNum1 : Extended;
 406:
 407:
        TempNum2 : Integer;
 408: begin
        TempNum1 := NumberToFloor * power(10, Exponent);
 409:
 410:
        TempNum2 := Floor(TempNum1);
        result := TempNum2 * power(10, (Exponent * (-1)));
 411:
 412:
 413: end;
414:
 415: function TBPFunctions.bp_THISYEAR: Double;
 416: var
 417:
       Year, Month, Day : word;
 418: begin
        DecodeDate (Date, Year, Month, Day);
 419:
 420:
        result := Year;
421: end;
422:
423: initialization
424.
425:
426: end.
       TAutoObjectFactory.Create(ComServer, TBPFunctions, Class_BPFunctions,
         ciMultiInstance, tmApartment);
```

```
2168: procedure TfrmBPMain.MinimizeDiscount;
2169: var
2170:
        guess : extended;
2171:
        loop_count, ierrcode : word;
2172: begin
2173:
        try
2174:
          try
2175:
            ValidateFields;
2176:
2177:
            loop_count := 0;
            guess := -999999999.00;
2178:
2179:
            Screen.Cursor:=crHourGlass;
2180:
            UpdateErrorMessage('Calculating.... Please Wait');
2181:
2182:
2183:
            //If deal structure not within possible parameters don't
2184:
            //bother to calculate discount
2185:
            ScreenToBPParameters; // from screen to parameter
2186:
            Evaluate;
            ierrcode := ScriptControl.eval('ErrCode');
2187:
            BPParametersToScreen(false, false);
                                                                                  //MODIFIED 21JUN01 JDP
2188:
            //If deal structure is within possible parameters then calculate discount
2189:
2190:
            if iErrCode <= 4 then
2191:
            begin
              edDiscount.asFloat := UNREASONABLE_DISCOUNT;
2192:
2193:
            end
2194:
            else begin
              UpdateErrorMessage('Minimizing Discount... Please Wait');
2195:
2196:
              edDiscount.asFloat := GetMinimumDiscount;
              while not WithInRange(guess) do
2197:
2198
2199
              begin
                if Loop Count = MAX LOOP COUNT then
2200
               begin
2201
                 break;
2202:
                end else
                begin
2204
                  guess := edDiscount.AsFloat;
                  BuyProgramParameter.vRESERVE := edDiscount.AsFloat;
2205
2206
                  Evaluate;
                  edDiscount.AsFloat := GetNewDiscount;
2208
                  edDiscount.Update; // updating the screen to show user the progress
2209:
                  inc(loop_count);
2210
                end;
                     // while
              end;
2212
              BuyProgramParameter.vRESERVE := Math.MAX(edDiscount.AsFloat, guess);
2213
2214
2216
              edDiscount.AsFloat := BuyProgramParameter.vRESERVE;
2217
              if BuyProgramParameter.vStructOK = False then
2218:
              begin
2219:
                loop_count := 0;
2220:
                repeat
                  edDiscount.AsFloat := edDiscount.AsFloat + JUMP AMT;
2221:
                  BuyProgramParameter.vRESERVE := edDiscount.AsFloat;
2222:
2223:
                  Evaluate:
                  edDiscount.AsFloat := BuyProgramParameter.vRESERVE;
2224:
                                      // update the screen
2225:
                  edDiscount.Update;
                  if Loop Count = MAX_LOOP_COUNT then
2226:
2227:
                    UpdateDealMessage('Maximum Calculations Reached! Please recheck deal structure');
2228:
                    break;
2229:
2230:
                  end;
                  Inc(Loop Count);
2231:
                until BuyProgramParameter.vStructOK=True;
2232:
2233:
              end;
2234:
              Evaluate;
2235:
           end:
2236:
          except
2237:
           raise;
2238:
          end;
2239:
        finally
          Screen.Cursor:=crDefault;
2240:
2241:
          CalculateFlag := True;
          if BuyProgramParameter.vStructOK = True then
2242:
2243:
            UpdateErrorMessage('');
                                                                //MODIFIED 21JUN01 JDP
2244:
          BPParametersToScreen(false, false);
2245:
        end:
                                                     B-64
2246: end;
```

Explanation of User Input for Buy Program

Label on User Interface	Variable Name in Expressions	Meaning			
Price DOC Smog Sales Tax Service Contract License Trade Allowance Trade Payoff	LicFee TradeAllowance TradePayoff	Price of Vehicle Documentary fee charged to customer Fee for emissions testing and certificate Sales Tax Rate Price of extended warranty sold to buyer Cost of License/Registration Amount Dealer is giving for Trade-In Amount customer still owes on Trade-In			
Cash Down Insurance	Down Ins	Amount of Cash Down Payment (Y or N)=If customer will purchase Comp/Collision insurance with contract			
Loan Date Date to 1 st Pmt	Not Used DaysToPay	Date of contract Number of days from contract date to First payment date			
Payments	Term	Number of monthly payments in contract			
Model Year Blue Book	vYear Book	Year model of vehicle being sold Kelley Bluebook wholesale valuation Of vehicle being sold			
Mileage Class	Miles vClass	Miles on vehicle "Class" of vehicle per Westlake Guidelines			
Cost Cost WarCost		Dealer Cost of Vehicle/etc Dealer Cost of extended warranty			

THE FOLLOWING VARIABLES ARE INPUT PER WESTLAKE GUIDELINES

Label on	Variable Name in		
User Interface	Expressions		
# Years on Credit Bureau	YrsTRW		
# Good Credit Items	Good		
\$ High Good Credit	HiGood		
# Derog Credit Items	Derog		
\$ High Derog Credit	HiDerog		
# Of Repo/Auto Loss	Repos		
Previous Bankruptcy?	BK		
Customer Owns Home?	Home		
Residence Stability	Resid		
# Yrs On Job	Job		
Gross Monthly Income	Inc		
Rent/Mortgage	Rent		
Family Support Debt	Support		
Other Monthly Debt	Debt		
Phone/Util/Chking in Name?	PhBill		
Spouse/Partner Co-X?	Spouse		
Other Co-X?	Cox		
SP # Good	SpGood		
SP \$ High Good	SpHiGood		
SP # Derog	SpDerog		
SP High Derog	SpHiDerog		
SP YrsJob	SpJob		
SP Income	Splnc		
COX # Good	CoxGood		
COX # Derog	CoxDerog		
COX # Repo	CoxRepo		
COX Income	CoxInc		
COX Owns Home	CoxHome		
COX Parent	CoxParent		

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